

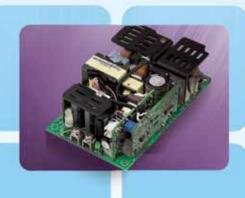
Your Reliable Power Partner

Standard Switching Power Supply Manufacturer













2015 April

New Products Overview



LRS Series

35~350W Economical Low Profile Type

- 85~264VAC input for LRS-35~150F: 115/230VAC selectable by switch for LRS-150~350
- Miniature size and 1U low profile
- Low no load power consumption < 0.2~0.75W
- Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1,-2-16 for household appliances (except for LRS-200/350)
- 3 years warranty



GST Series

53-55

18~280W Industrial Adaptor

- 85~264VAC input
- No load power consumption < 0.075~0.5W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and CoC Version 5
- Fanless design with -30~+70°C working temperature
- 3 years warranty



RST-10000



10000W High Power

- $3\phi 3$ -wire/ $\triangle 196 \sim 305$ VAC or $3\phi 4$ -wire/Y $340 \sim 530$ VAC
- · Vo can be trimmed 20~120%, Io can be trimmed 20~100%
- · Built-in current sharing up to 20000W (2 units)
- Output models: 24V/36V/48V
- 5 years warranty



SGA40/60



40/60W Slim Industrial Adaptor

- 90~264VAC input
- No load power consumption < 0.075~0.15W
- Energy efficiency Level VI
- · Comply with EISA 2007/DoE, EU ErP
- Ultra slim, model width 40W: 32mm 60W: 35mm
- 3 years warranty



EDR-75/120/150 NDR-75/120/240/480

- 90~264VAC input
- Model width 75W: 32mm

120W/150W: 40mm

240W: 63mm 480W: 85.5mm

• EDR series: 2 years warranty NDR series: 3 years warranty



GSM120B/160B/220B

60

• Suitable for BF application (2xMOPP)

120~220W Medical Adaptor

- Class II (without earth Pin)
- No load power consumption < 0.15W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Low leakage current <100μA
- · 3 years warranty



IRM-45/60-x ST



45/60W AC/DC On Board Encapsulated Type

- 85~264VAC input
- No load power consumption < 0.1W
- Miniature size, high power density
- Screw terminal I/O connection models for ST type
- · Withstand 5G vibration
- · 3 years warranty



HEP-100/150/185/ 240/320/600

- 90~264VAC input
- · High efficiency up to 96%
- Fanless design, -40~+70°C wide operating range, withstand 5G vibration, IP65/68 design, 6KV high surge immunity level
- Suitable for high dust/moisture/ vibration, high/low temperature, or outdoor environment
- 5 years warranty



INDEX



■Enclose	d Switching Dower Sun	alv		GEM18 Interchangeable AC Plug 2 Optional DC Plug Lis	57
= LIICIUSE	d Switching Power Supp			GSM06E/U, GSM18B/E/U,	58
	RS-15 / 25 / 35 / 50 / 75 / 100 / 150	2~3	Medical	GSM25B/E/U,GSM36B/E/U	00
G3 Series	RD-35 / 50 / 65 / 85 / 125		Adaptor	GSM40A/B, GSM60A/B, GSM90B	59
G3 Series	RID-50 / 65 / 85 / 125, RT-50 / 65 / 85 / 125			GSM120B, GSM160B, GSM220B	60
	RQ-50 / 65 / 85 / 125		Moieturoproof	OWA-60E/U, OWA-90E/U	61
	NES-15 / 25 / 35 / 50 / 75 / 100 / 150	4~5	Adaptor	OWA-120E/U	01
NE Series	NED-35 / 50 / 75 / 100, NET-35 / 50 / 75	_			60
112 001103	NES-200, NES-350		Green Charger	GC30B/U/E, GC120 / 160 / 220 / 330	62
	SE-100, SE-200, SE-350, SE-450	6		PA-120, PB-120	63
SE Series	SE-600, SE-1000, SE-1500,		Charger	ESC/P-120/240, PB-230, PB-300/360P	64
	LRS-35, LRS-50, LRS-75, LRS-100			PB-600/1000, HEP-600C 2/3/8 Stage Chargin	
LRS Series			19" Rack	RCP-1000, RCP-1U , RCP-MU,	66
	LRS-150F, LRS-150, LRS-200, LRS-350	9	Power	RCP-2000, RKP-1U , RKP-CMU1,	67
	SP-75, SP-100, SP-150, SP-200, SP-240	10		RKP-1UCMU1	
	SP-320, SP-480, PSP-600, SP-750	11	Modular		8~69
	RSP-75, RSP-100, RSP-150, RSP-200	12	Series	MS-75 / 150 / 210 / 300 / 360, MD-100	
	RSP-320, RSP-500, RSP-750	13	■Specific	Purpose Power Supply	
	RSP-1000 / 1500 / 2000 / 2400 / 3000	14	LED Sign	ERP-350, HSN-200/300, NEL-200/300/40	0.70
PFC Series	RST-5000, RST-10000, SPV-150 / 300 / 1500	15	Panel	HSP-150 / 200 / 250 / 300, HDP-190 / 240	
	TP-75, TP-100, QP-100, TP-150,	6~17		HEP-100, HEP-150, HEP-185	
	QP-150, QP-200, QP-320		Harsh		72 72
	HRP-75, HRP-100, HRPG-150, HRPG-200	18	Environment	HEP-240, HEP-320, HEP-600	73
	HRPG-300, HRPG-450, HRPG-600	19		DRC-40, DRC-60, DRC-100	74
	MSP-100 / 200 / 300 / 450 / 600	20	Security	PSC-35-x-C, PSC-60-x-C, PSC-100-x-C, PSC-160-x-C	_
U-bracket	USP-150, USP-225, USP-350, USP-500	21	Series	ADS-55, AD-55, ADD-55,	76
U-bracket	MDR-10 / 20 / 40 / 60 / 100	22		ADS-155, AD-155, ADD-155	
		23		SCP-35, SCP-50, SCP-75, IPC-250, IPC-300	0 77
	DR-15, DR-30, DR-60, DR-100	23 24	■DC/DC C	Converter	
	DR-45, DR-75, DR-120,	24		SRS, SUS01	78
	DRP-240, DRP-480, DRP-480S	25		SBT01, SFT01, DET01	79
DINI Carria	DRH-120, DRT-240, DRT-480, DRT-960	25		SPR01, SMU01, SMA01	80
DIN Series	EDR-75, EDR-120, EDR-150	26		SPU02, SPU03, SPA02, SPB03, SPB05	81
	NDR-75, NDR-120, NDR-240, NDR-480	27		SCW03, DCW03, SCW05, DCW05	82
	SDR-75 / 120 / 240 / 480P/ 960	28		SLW05, DLW05, SCW08, DCW08	83
	WDR-120, WDR-240, WDR-480	29	Modulo Typo	SKE10, DKE10, SCW12, DCW12	84
	TDR-960, DRA-40, DRA-60	30	wodule Type	SKM15, SKA15, DKA15	85
	DR-RDN20, DR-UPS40	31		SKE15, DKE15, SKA20, SKM30	86
■Open Fra	ame Switching Power Supp	oly		SDM30, DKA30, TKA30	87
	PM-05, PM-10, PM-15, PM-20	32		SKM50, SKA40, SKA60	
	NFM-05, NFM-10, NFM-15, NFM-20	33		MHB75, MHB100 Heat Sink for MHB Serie	88
Medical	MPS-30, MPS / D / T-45				
Type	RPS / D / T-60, MPS /D / T-65	35		MHB150	90
. 71	RPS / D / T-75, RPS G / D / T-160	36	On Board	NSD05	90
	MPS / D / T / Q-200, RPS-300	37	Type	NSD10-S, NSD10-D, NSD15-S, NSD15-D	91
	PS-05, PS-15, PS-25, PD-25, PS-35	38		NID30, NID60	92
	PS-45, PD-45, PT-45, PT-4503 / 6503	39	PCB Type	PSD-05, PSD-15	92
	PS / PD / PT-65, RPD-65-C, RPT-65-C	40	J 1	PSD-30, PSD-45	93
	PD-110, PPS-125, PPT-125 <i>RCP-1600</i>			SD-15, SD-25	93
Industrial	ASP-150, PPS-200, PID-250	42	Enclosed	SD-50, SD-100, SD-150, SD-200	94
Industrial Type	LPS-50 / 75 / 100, LPP-100 / 150	42 43	Type	SD-350, SD-500, SD-1000 <i>RPB-1600</i>	
Туре	· ·			RSD-100, RSD-150, RSD-200, RSD-300	96
	IRM-05, IRM-10, IRM-15, IRM-20	44 45	Introduction	LED Power Family / Inverter Family	97
	IRM-30/45/60-x ST		= /\	rice / Cose Drawing	
	EPS-15, EPS-25/35, EPS-45-x-C, EPS-65-x-C		-Accesso	ries / Case Drawing	
	ELP-75-x-C, EPP-100, EPP-150, EPP-300	47		Case 901 / 902 / 903 / 905 / 906 / 907	98
■Externa	I Switching Power Suppl	ly		Case 910A / 912 / 915A / 916(A/B) / 920A / 926	A 99
	GE12/18/24 Interchangeable AC Plug		Case	Case 928A / 929A / 931A / 932A / 935A / 939A	
	GS05E/U-USB, GS06E/U, GS12E/U, GS15A/B/E/U		Drawing	Case 940A / 941B / 943A / 946A / 952B / 971	
	GS18A/B/E/U, GS25A/B/E/U, GS36E/U	50	Drawing		
	GS40A, GS60A, GS90A, GS120A	51		Case 977A / 978A / 980A / 986A / 987A / 995A	
Industrial				Case 206A / 207A / 238A / 239A / 240A / 241A	
Industrial	GS160A, GS220A, GS280A	52 52		DRL-01 / 02 / 03A, DRP-01 / 01A / 02 / 03 / 04	104
Adaptor	GST18A/B/E/U, GST25A/B/E/U	53	Accessories	MHS012 / 013 / 014 / 025 / 026 / 027	
	GST36B/E/U			TBC-05 / 07 / 08 / 09	
	GST40A, GST60A, GST90A, GST120A	54			
	GST160A, GST220A, GST280A	55	: New Annou		
	SCAMPILI SCAMPILI POSA/R PSNA	56	: New Produ	uct within 1 Year : Supplementary Inform	ation

56

SGA40E/U, SGA60E/U, P25A/B, P50A

: New Product within 1 Year

: Supplementary Information

Enclosed-G3 Series High Reliability Miniature





■ Features

- No load power consumption < 0.5W (RS-15~75)
- All using 105°C long life electrolytic capacitors
- Protections: Short circuit / Overload / Over voltage / Over Temp.(RS-15)
- Meet EMS EN50082-2/EN61000-6-2 heavy industry level (35~150W)
- Withstand 300VAC surge input for 5 sec.
- High operating temperature up to 70°C
- Withstand 5G vibration test
- · Miniature size
- Long life and high reliability
- · LED indicator for power on
- 100% full load burn-in test
- Suitable for critical applications
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	RS-15		RS-25	RS-35 RD-35	RS-50 RD / ID / T / Q-50	RS-75 RD / ID / T / Q-65	RS-100 RD / ID / T / Q-85	RS-150 RD / ID /	T / Q-125
AC input voltage range	e 85~264VAC, 1	20~370VDC	88~264VAC, 1	25~373VDC				115 / 230	VAC by switch
AC inrush current (ma	x.) Cold start, 65A	A at 230VAC	30A at 230VAC	36A at 230VAC	33A at 230VAC	40A at 230VAC			
DC adjustment range	±10% by pot	entiometer fo	or single output;	CH1 -5%~+10%	6 by potentiometer	for multiple output			
Overload protection	>105%, hiccu	up mode	110%~180%	110%~150% h	iccup mode, auto-re	ecovery (150% ~19	0% for RID-125-1	205/2405)	
Over voltage protectio	n 115%~135%,	shut off	115%~135% ra	ated output volta	age, hiccup mode, a	auto-recovery			
Withstand voltage		VAC, I/P - FG	: 1.5kVAC, O/P	- FG: 0.5kVAC	1 minute				
Working temperature	-20~+70°C			-25~+70°C (ref	er to the derating cu	rve for different mod	dels)		
Vibration	10~500Hz, 5	G 10min. /1 (cycle, period for	60 min. each a	long X, Y, Z axes				
Safety standards	UL60950-1,	TUV EN6095	0-1 approved						
EMC standards	EN55022 cla	ss B, EN610	00-3-2,3, EN610	000-4-2,3,4,5,6,	8,11, EN61000-6-2	(EN50082-2) (35~	150W)		
Connection	Terminal bloc	ck for input a	nd output						
Dimension (LxWxH)(m	m) 62.5x 51x 28		78x 51x 28	99x 82x 36	99x 97x 36	129x 97x 38	159x 97x 38	199x 98	x 38
Case No.	971A		931A	932A	905B	903	901C	902A	
Packing	108pcs /15.0	kg	60pcs /13.0kg	45pcs /14.0kg	45pcs /19.5kg	30pcs /13.3kg	24pcs /15.4kg	20pcs /1	15kg
■ 15W — Single	Output				RS-50-15	15V, 0~3.4A	±1%	120mV	86.0%
Model No.	Output	Tol.	R&N	Effi.	RS-50-24	24V, 0~2.2A	±1%	120mV	88.0%
	3.3V, 0~3.0A	±3%	80mV	72%	RS-50-48	48V, 0~1.1A	±1%	200mV	89.0%
RS-15-5	5V, 0~3.0A	±2%	80mV	77%	7EW Cin	ala Outnut			
RS-15-12	12V, 0~1.3A	±1%	120mV	81%	■ 75W — Sing	gie Output			
	15V, 0~1.0A	±1%	120mV	81%	Model No.	Output	Tol.	R&N	Effi.
	24V, 0~0.625A	±1%	200mV	82%	RS-75-3.3	3.3V, 0~15A	±3%	80mV	75.0%
RS-15-48	48V, 0~0.313A	±1%	200mV	82%	RS-75-5	5V, 0~12A	±2%	80mV	79.0%
■ 25W — Single	Output				RS-75-12 RS-75-15	12V, 0~6.0A 15V, 0~5.0A	±1% ±1%	120mV 120mV	84.5% 86.0%
Model No.	Output	Tol.	R&N	Effi.	RS-75-24	24V, 0~3.2A	±1%	120mV	88.5%
RS-25-3.3	3.3V, 0~6.0A	±3%	80mV	73.5%	RS-75-48	48V, 0~1.6A	±1%	200mV	89.5%
RS-25-5	5V, 0~5.0A	±2%	80mV	78.5%					
RS-25-12	12V, 0~2.1A	±1%	120mV	81.5%	■ 100W — Siı	ngle Output			
RS-25-15 RS-25-24	15V, 0~1.7A 24V, 0~1.1A	±1% ±1%	120mV 120mV	83.5% 86.0%	Model No.	Output	Tol.	R&N	Effi.
	48V, 0~0.57A	±1%	200mV	85.0%	RS-100-3.3	3.3V, 0~20A	±3%	80mV	74%
					RS-100-5	5V, 0~16A	±2%	80mV	77%
■ 35W — Single	Output				RS-100-12	12V, 0~8.5A	±1%	120mV	81%
Model No.	Output	Tol.	R&N	Effi.	RS-100-15	15V, 0~7.0A	±1%	120mV	82%
	3.3V, 0~7.0A	±3%	80mV	76.5%	RS-100-24	24V, 0~4.5A	±1%	120mV	84%
RS-35-5	5V, 0~7.0A	±2%	80mV	80.5%	RS-100-48	48V, 0~2.3A	±1%	200mV	84%
RS-35-12 RS-35-15	12V, 0~3.0A 15V, 0~2.4A	±1% ±1%	120mV 120mV	84.5% 86.0%	■ 150W — Sir	nale Outnut			
RS-35-24	24V, 0~1.5A	±1% ±1%	120mV	88.0%		•		Doll	E.C.
RS-35-48	48V, 0~0.8A	±1%	200mV	88.5%	Model No.	Output	Tol.	R&N	Effi.
■ 50W — Single	Output				RS-150-3.3 RS-150-5	3.3V, 0~30A 5V, 0~26A	±3% ±2%	80mV 80mV	74% 78%
Model No.	Output	Tol.	R&N	Effi.	RS-150-12	12V, 0~12.5A	±1%	120mV	83%
	3.3V, 0~10A	±3%	80mV	78.0%	RS-150-15	15V, 0~10A	±1%	120mV	84%
RS-50-5	5V, 0~10A	±2%	80mV	83.0%	RS-150-24	24V, 0~6.5A	±1%	120mV	86%
RS-50-12	12V, 0~4.2A	±1%	120mV	84.5%	RS-150-48	48V, 0~3.3A	±1%	200mV	87%

Enclosed-G3 Series



■ 35W — [Dual Output				
Model No.	Output	Tol.	R&N	Effi.	Max.
RD-35A	5V, 0.3~4.0A	±2%	80mV	79%	32W
	12V, 0.2~1.0A	±6%	120mV		
RD-35B	5V, 0.3~4.0A	±2%	80mV	82%	35W
	24V, 0.2~1.3A	±5%	120mV		
RD-3513	13.5V, 0.3~2.0A	±4%	120mV	80%	35W
	-13.5V, 0.2~0.57A	±4%	120mV		
_					

_					
■ 50W — D	ual Output (Out	tput isolated	for RID-5	0A/B)	
	•				
Model No.	Output	Tol.	R&N	Effi.	Max.
RD-50A	5V, 0.3~6.0A	±2%	80mV	79%	54W
	12V, 0.3~3.0A	±7%	120mV		
RD-50B	5V, 0.3~6.0A	±2%	80mV	80%	54W
	24V, 0.2~2.0A	+8%, -4%	120mV		

)	JUNIUJ	ישוא וטו ו	itput isolatet	uai Output (Ou	
ffi. Max.	Effi.	R&N	Tol.	Output	Model No.
9% 66W	79%	80mV	±2%	5V, 0.3~8.0A	RD-65A
		120mV	±6%	12V, 0.2~4.0A	
3% 68W	78%	80mV	±2%	5V, 0.3~8.0A	RD-65B
		150mV	+4%, -6%	24V, 0.2~3.0A	
9% 66	79%	80mV 120mV 80mV	±2% ±6% ±2%	5V, 0.3~8.0A 12V, 0.2~4.0A 5V, 0.3~8.0A	RD-65A

■ 85W — D	ual Output (Outp	ut isolated	d for RID-85	A/B)	
Model No.	Output	Tol.	R&N	Effi.	Max.
RD-85A	5V, 2.0~10A	±2%	80mV	78%	88W
	12V, 0.3~5.0A	±5%	120mV		
RD-85B	5V, 2.0~10A	±2%	80mV	80%	88W
	24V, 0.3~2.5A	±5%	120mV		

utput				
utput	Tol.	R&N	Effi.	Max.
2.0~15A	±5%	80mV	82%	131W
0.5~10A	±7%	120mV		
2.0~10A	±5%	80mV	85%	133W
0.4~5.0A	±7%	120mV		
)	2.0~15A 0.5~10A 2.0~10A	Output Tol. 2.0~15A ±5% 0.5~10A ±7% 2.0~10A ±5%	Output Tol. R&N 2.0~15A ±5% 80mV 0.5~10A ±7% 120mV 2.0~10A ±5% 80mV	Output Tol. R&N Effi. 2.0~15A ±5% 80mV 82% 0.5~10A ±7% 120mV 2.0~10A ±5% 80mV 85%

	24V, 0.4~5.0A	± /%	120mV		
■ 125W — D	ual Output (0)	utput isolated	l for RID-	125)	
Model No.	Output	Tol.	R&N	Effi.	Max.
RD-125-1224	12V, 1.0~7.0A	±2%	120mV	85%	133W
	24V, 0.4~5.0A	+8%, -5%	200mV		
RD-125-2412	24V, 0.5~5.0A	±2%	200mV	85%	133W
	12V, 1.0~7.0A	±10%	120mV		
RD-125-1248	12V, 1.0~7.0A	±2%	120mV	86%	138W
	48V, 0.2~2.5A	+8%, -5%	240mV		
RD-125-4812	48V, 0.3~2.5A	±2%	240mV	86%	138W
	12V, 1.0~7.0A	±10%	120mV		
RD-125-2448	24V, 0.5~4.0A	±1%	200mV	86%	144W
	48V, 0.2~2.5A	±4%	240mV		
RD-125-4824	48V, 0.3~2.5A	±1%	240mV	86%	144W
	24V, 0.5~4.0A	±8%	240mV		
RID-125-1205	12V, 2.0~10.5A	±2%	120mV	80%	125W
	5V, 0.0~3.0A	±3%	80mV		
RID-125-2405	24V, 2.0~5.3A	±2%	120mV	83%	125W
	5V, 0.0~3.0A	±3%	80mV		

■ 50W — C	עad Output (RT)	T-50 without -	·5V or -12	V outp	ut)
Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-50B	5V, 0.5~6.0A	±2%	80mV	74%	46W
	12V, 0.2~1.5A	±6%	120mV		
	-5V, 0.0~1.0A	±3%	100mV		
	-12V, 0.0~1.0A	±3%	80mV		
RQ-50C	5V, 0.5~6.0A	±2%	80mV	75%	50W
	15V, 0.2~1.5A	±6%	120mV		
	-5V, 0.0~1.0A	±3%	100mV		
	-15V, 0.0~1.0A	±3%	80mV		
RQ-50D	5V, 0.5~6.0A	±2%	80mV	79%	53W
	12V, 0.2~1.5A	±6%	120mV		
	24V, 0.1~1.0A	+7%, -5%	180mV		
	-12V, 0.0~1.0A	±3%	80mV		

■ 65W — (Juad Output (R7	T-65 without -	·5V or -12	V outp	ut)
Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-65B	5V, 0.5~8.0A	±2%	80mV	76%	63W
	12V, 0.2~3.0A	+9%, -5%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-12V, 0.0~1.0A	±5%	80mV		
RQ-65C	5V, 0.5~8.0A	±2%	80mV	76%	65W
	15V, 0.2~3.0A	+10%, -4%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-15V, 0.0~1.0A	±5%	80mV		
RQ-65D	5V, 0.5~8.0A	±2%	80mV	78%	68W
	12V, 0.2~3.0A	±6%	120mV		
	24V, 0.1~1.5A	±8%	180mV		
	-12V, 0.0~1.0A	±5%	80mV		

■ 85W — 0	Quad Output (R1	T-85 without	-5V or -12	V outp	ut)
Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-85B	5V, 2.0~10A	±2%	80mV	76%	81W
	12V, 0.3~4.0A	+7%, -3%	120mV		
	-5V, 0.0~1.0A	±8%	100mV		
	-12V, 0.0~1.0A	±5%	80mV		
RQ-85C	5V, 2.0~10A	±2%	80mV	77%	83W
	15V, 0.3~4.0A	+3%, -7%	120mV		
	-5V, 0.0~1.0A	±8%	100mV		
	-15V, 0.0~1.0A	±5%	80mV		
RQ-85D	5V, 2.0~10A	±2%	80mV	78%	84W
	12V, 0.3~4.0A	+7%, -3%	120mV		
	24V, 0.1~1.5A	±8%	150mV		
	-12V, 0.0~1.0A	±5%	80mV		
125\//	Ouad Output /	T 405		4014	

■ 125W —	Quad Output (I	RT-125 withou	ut -5V or -	·12V ou	ıtput)
Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-125B	5V, 2.0~12A	±2%	80mV	79%	120W
	12V, 0.5~4.5A	+8%, -3%	120mV		
	-5V, 0.1~1.0A	+6%, -10%	80mV		
	-12V, 0.0~1.0A	±5%	80mV		
RQ-125C	5V, 2.0~12A	±2%	80mV	80%	123W
	15V, 0.5~4.0A	+8%, -3%	120mV		
	-5V, 0.1~1.0A	+6%, -10%	80mV		
	-15V, 0.0~1.0A	±5%	80mV		
RQ-125D	5V, 2.0~12A	±2%	80mV	82%	124W
	12V, 0.5~4.0A	+8%, -3%	120mV		
	24V, 0.1~2.5A	±8%	150mV		
	-12V, 0.0~1.0A	±5%	80mV		

Enclosed-NE Series

15~350W Miniature





Features

- Universal AC input / Full range (NES/D-100, NES-150 AC input selectable by switch)
- Protections: Short circuit / Overload / Over voltage
- Built-in over temperature protection for NES-15
- · Cooling by free air convection
- · 100% full load burn-in test
- Most economical low wattage solution with safety certificates
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)







Model No.	NES-15	NEC 25	NES-35	NES-50	NES-75	NEC 100	NES-150
woder No.	NE2-12	NES-25	NED/T-35	NED/T-50	NED/T-75	NES-100	NED-100
AC input voltage range	85~264VAC;	120~370VDC				115/230VAC by s	witch
AC inrush current (max.)	Cold start, 45	A at 230VAC				•	
DC adjustment range	, ,	±10% by potentiometer for single output; CH1 -5%~+10% by potentiometer for multiple output				-5%~+10% (NES-100/150) CH1 -5%~+10% (NED-100)	
Overload protection	>105%						
Over voltage protection	115%~135% r						p mode, auto-recovery
Withstand voltage	I/P - O/P: 3k\	I/P - O/P: 3kVAC, I/P - FG: 2kVAC, O/P - FG: 0.5kVAC, 1 minute					
Working temperature	-20~+60°C (r	efer to the dera	ting curve for di	fferent models)			
Vibration	10~500Hz, 20	G 10min. /1 cycl	e, period for 60	min. each alon	g X, Y, Z axes		
Safety standards	UL60950-1, E	N60950-1(NES-	150 only), GB4	943(NES only) a	ipproved, also de	sign refer to TUV	EN60950-1
EMC standards	EN55022 clas	ss B, EN61000-3	3-2,3, EN61000-	4-2,3,4,5,6,8,11	, GB9254(NES oi	ıly)	
Connection	Terminal bloc	k for input and	output				
Dimension (LxWxH)(mm)	78x 51x 28	99x 82x 35	99x 97x 36	129x 98x 38	159x 97x 38	159x 97x 38	199x 98x 38
Case No.	931A	932B	905	903	901	901	902
Packing	60pcs/11.8kg	45pcs/14.5kg	45pcs/17.2kg	45pcs/21kg	30pcs/16.6kg	30pcs/17.5kg	20pcs/15kg

■ 15W — Single Output								
Model No.	Output	Tol.	R&N	Effi.				
NES-15-5	5V, 0~3.0A	±2%	150mV	79%				
NES-15-12	12V, 0~1.3A	±1%	150mV	81%				
NES-15-15	15V, 0~1.0A	±1%	150mV	81%				
NES-15-24	24V, 0~0.7A	±1%	200mV	85%				
NES-15-48	48V, 0~0.35A	±1%	240mV	82%				

■ 25W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-25-5	5V, 0~5.0A	±2%	80mV	78%
NES-25-12	12V, 0~2.1A	±1%	120mV	83%
NES-25-15	15V, 0~1.7A	±1%	150mV	84%
NES-25-24	24V, 0~1.1A	±1%	200mV	86%
NES-25-48	48V, 0~0.57A	±1%	240mV	86%

■ 35W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-35-5	5V, 0~7.0A	±2%	80mV	78%
NES-35-12	12V, 0~3.0A	±1%	120mV	81%
NES-35-15	15V, 0~2.4A	±1%	150mV	83%
NES-35-24	24V, 0~1.5A	±1%	200mV	85%
NES-35-48	48V, 0~0.8A	±1%	240mV	86%

■ 50W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-50-5	5V, 0~10A	±2%	80mV	79%
NES-50-12	12V, 0~4.2A	±1%	120mV	82%
NES-50-15	15V, 0~3.4A	±1%	150mV	83%
NES-50-24	24V, 0~2.2A	±1%	200mV	86%
NES-50-48	48V, 0~1.1A	±1%	240mV	87%

■ 75W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-75-5	5V, 0~14A	±2%	80mV	77%
NES-75-12	12V, 0~6.2A	±1%	120mV	82%
NES-75-15	15V, 0~5.0A	±1%	150mV	83%
NES-75-24	24V, 0~3.2A	±1%	200mV	86%
NES-75-48	48V, 0~1.6A	±1%	240mV	87%

■ 100W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-100-5	5V, 0~20A	±2%	80mV	80%
NES-100-7.5	7.5V, 0~13.6A	±1%	120mV	81%
NES-100-9	9V, 0~11.2A	±1%	120mV	81%
NES-100-12	12V, 0~8.5A	±1%	120mV	83%
NES-100-15	15V, 0~7.0A	±1%	120mV	84%
NES-100-24	24V, 0~4.5A	±1%	120mV	86%
NES-100-48	48V, 0~2.3A	±1%	150mV	86%

■ 150W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-150-3.3	3.3V, 0~30A	±3%	80mV	73%
NES-150-5	5V, 0~26A	±2%	80mV	78%
NES-150-7.5	7.5V, 0~20A	±1%	120mV	80%
NES-150-9	9V, 0~16.7A	±1%	120mV	83%
NES-150-12	12V, 0~12.5A	±1%	120mV	83%
NES-150-15	15V, 0~10A	±1%	120mV	83%
NES-150-24	24V, 0~6.5A	±1%	120mV	86%
NES-150-48	48V, 0~3.3A	±1%	200mV	86%

Enclosed-NE Series



Effi. 75%

■ 35W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max
NED-35A	5V, 0.5~5.0A	±2%	80mV	78%	32W
	12V, 0.1~1.5A	±6%	120mV		
NED-35B	5V, 0.5~4.0A	±2%	80mV	81%	35W
	24V, 0.2~1.3A	±6%	200mV		

■ 50W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max
NED-50A	5V, 1.0~6.0A	±2%	80mV	79%	54W
	12V, 0.3~3.0A	±6%	120mV		
NED-50B	5V, 1.0~6.0A	±2%	80mV	82%	54W
	24V, 0.2~2.0A	±6%	200mV		

■ 75W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max
NED-75A	5V, 1.0~8.0A	±2%	80mV	78%	71W
	12V, 0.3~4.0A	±6%	120mV		
NED-75B	5V, 1.0~6.0A	±2%	80mV	81%	73W
	24V, 0.2~3.0A	±6%	200mV		

■ 100W — Dual Output (Output isolated for NED-100 [GD)

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-100A	5V, 2~10A	±2%	80mV	80%	100W
	12V, 0.7~7.0A	±10%	120mV		
NED-100B	5V, 1~10A	±2%	80mV	82%	100W
	24V, 0.3~3.5A	±8%	200mV		
NED-100C	12V, 0~8.0A	±2%	120mV	80%	99W
	5V, 0~3.0A	±3%	80mV		
NED-100D	24V, 0~4.0A	±2%	120mV	82%	99W
	5V, 0~3.0A	±3%	80mV		

■ 35W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-35A	5V, 0.5~4.0A	±2%	80mV	78%	30W
	12V, 0.1~1.5A	±6%	120mV		
	-5V, 0.1~0.5A	±6%	120mV		
NET-35B	5V, 0.5~4.0A	±2%	80mV	79%	33W
	12V, 0.1~1.5A	±6%	120mV		
	-12V, 0.1~0.5A	±6%	120mV		
NET-35C	5V, 0.5~3.5A	±2%	80mV	79%	35W
	15V, 0.1~1.5A	±8%	150mV		
	-15V, 0.1~0.5A	±8%	150mV		
NET-35D	5V, 0.5~3.5A	±2%	80mV	79%	37W
	24V, 0.1~1.0A	±8%	200mV		
	12V, 0.1~1.0A	±8%	120mV		
_					

■ 50W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-50A	5V, 0.6~5.0A	±2%	80mV	76%	47W
	12V, 0.2~2.5A	±6%	120mV		
	-5V, 0.1~0.7A	±5%	120mV		
NET-50B	5V, 0.6~5.0A	±2%	80mV	78%	50W
	12V, 0.2~2.5A	±6%	120mV		
	-12V, 0.1~0.7A	±5%	120mV		
NET-50C	5V, 0.6~5.0A	±2%	80mV	78%	50W
	15V, 0.1~2.0A	±8%	150mV		
	-15V, 0.1~0.7A	±5%	150mV		
NET-50D	5V, 0.6~5.0A	±2%	80mV	80%	51W
	24V, 0.1~1.5A	±8%	200mV		
	12V, 0.1~1.5A	±6%	120mV		

75W — Triple Output

75W — III	pie Output				
Model No.	Output	Tol.	R&N	Effi.	Max.
NET-75A	5V, 0.6~7.0A	±2%	80mV	77%	69W
	12V, 0.2~3.5A	±6%	120mV		
	-5V, 0.1~0.7A	±5%	120mV		
NET-75B	5V, 0.6~7.0A	±2%	80mV	78%	65W
	12V, 0.2~3.5A	±6%	120mV		
	-12V, 0.1~0.7A	±5%	120mV		
NET-75C	5V, 0.6~7.0A	±2%	80mV	78%	72W
	15V, 0.1~3.5A	±8%	150mV		
	-15V, 0.1~0.7A	±5%	150mV		
NET-75D	5V, 0.6~6.0A	±2%	80mV	80%	73W
	24V, 0.1~2.0A	±8%	200mV		
	12V, 0.1~1.5A	±6%	120mV		

210W Single Output Switching Power Supply

c**FL**°us



- AC input selectable by switchWithstand 300VAC surge input for
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload Over voltage / Over temp.
- Cooling by free air convection
- · Built-in constant current limiting circuit
- · 100% full load burn-in test
- · LED indicator for power on
- 215x 115x 50 mm Low cost, high reliability
 - · 2 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch	
DC adjustment range ±10% rated output range	
Overload protection 105%~150% constant current limiting, auto-recover	у
Over voltage protection 115%~145% rated output voltage	
Setup, rise, hold up time 1000ms, 50ms, 20ms at full load and 230VAC	
Withstand voltageI/P - O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVA	4C
Working temperature20~+50°C (refer to output derating curve)	
Safety standards UL60950-1 approved	
Packing0.93kg ; 12pcs / 12kg / 0.92CUFT	

Model No.	Output	Tol.	R&N	
NES-200-3.3	3.3V, 0~40A	±2%	150mV	
NES-200-5	5V, 0~40A	±2%	150mV	

NES-200-5	5V, 0~40A	±2%	150mV	79%	
NES-200-7.5	7.5V, 0~27A	±2%	150mV	82%	
NES-200-12	12V, 0~17A	±1%	150mV	85%	
NES-200-15	15V, 0~14A	±1%	150mV	85%	
NES-200-24	24V, 0~8.8A	±1%	150mV	87%	
NES-200-27	27V, 0~7.8A	±1%	200mV	88%	
NES-200-36	36V, 0~5.9A	±1%	240mV	89%	
NES-200-48	48V, 0~4.4A	±1%	240mV	89%	

350W Single Output Switching Power Supply

c**SN**°us



- · AC input selectable by switch
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- · Built-in fan ON/OFF control
- Built-in constant current limiting circuit100% full load burn-in test
- · LED indicator for power on
- · Low cost, high reliability
- 2 years warranty

AC input voltage range	90~132VAC / 180~264VAC selectable by switch
DC adjustment range	±10% rated output range
Overload protection	105%~135% constant current limiting, auto-recovery
Over voltage protection	. 115%~145% rated output voltage
Setup, rise, hold up time	1000ms, 50ms, 20ms at full load and 230VAC
Withstand voltage	I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature	-20~+60°C (refer to output derating curve)
Safety standards	UL60950-1 approved

Packing	1.07kg ;	12pcs /	13.5kg /	0.92CUFT

-		_		
Model No.	Output	Tol.	R&N	Effi.
NES-350-3.3	3.3V, 0~60A	+3%, -4.5%	150mV	74.0%
NES-350-5	5V, 0~60A	±3.0%	150mV	78.0%
NES-350-7.5	7.5V, 0~46A	±2.0%	150mV	80.0%
NES-350-12	12V, 0~29A	±1.5%	150mV	83.0%
NES-350-15	15V, 0~23.2A	±1.0%	150mV	84.0%
NES-350-24	24V, 0~14.6A	±1.0%	150mV	87.0%
NES-350-27	27V, 0~13A	±1.0%	200mV	88.0%
NES-350-36	36V, 0~9.7A	±1.0%	240mV	87.5%
NES-350-48	48V, 0~7.3A	±1.0%	240mV	87.5%

Enclosed-SE Series 100~450W Single Output





Features

- AC input selectable by switch
- Withstand 300VAC surge input for 5 seconds (SE-200/350)
- Protections: Short circuit / Overload / Over voltage / Over temperature (except for SE-100)
- Forced air cooling by built-in DC fan (SE-350/450)
- Built-in fan ON/OFF control (SE-350)
- Built-in constant current limiting circuit (SE-200/350)
- Withstand 5G vibration test (SE-200/350)
- Built-in remote sense function (SE-450)
- 100% full load burn-in test
- · LED indicator for power on
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		SE-100	SE-200	SE-350	SE-450		
AC input vol	tage range	115/230VAC by switch	115/230VAC by switch				
AC inrush current (max.)		Cold start, 36A at 230VAC	Cold start, 55A at 230VAC	Cold start, 60A at 230VAC	Cold start, 55A at 230VAC		
DC adjustme	nt range	-5%~+10% rated output voltage	ge ±10% rated output voltage				
Overload	Range	110%~150%	105%~150%	105%~135%	105%~150%		
protection	Туре	Hiccup mode, auto-recovery	Constant current limi	ting, auto-recovery	Shut down o/p voltage, re-power on to recover		
Over voltage protection		115%~135%	135% 115%~145%				
Withstand vo	oltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P-FG: 0.5kVAC					
Working tem	perature	-20~+60°C	-20~+50°C	-20~+60°C	-10~+60°C (refer to output derating curve)		
Safety stand	ards	UL60950-1, GB4943(SE-100 only) approved					
EMC standar	ds	EN55022 class B, EN61000-3-2,	3, EN61000-4-2,3,4,5	,6,8,11, GB9254 for S	E-100 only		
Connection		7P/9.5mm pitch terminal block	9P/9.5mm pitch term	inal block with cover	9P/11mm pitch terminal block with cover		
Dimension (LxWxH)(mm)		159x 97x 38	215x 115x 50		225x 124x 50		
Case No.		901	912E	912C	986A		
Packing		30pcs / 17.5kg	12pcs / 12kg	12pcs / 13.5kg	12pcs / 16kg		

SE-100 Seri	es		c SU'us (((Ga)	CB(€
Model No.	Output	Tol.	R&N	Effi.
SE-100-5	5V, 0~20A	±2%	80mV	80%
SE-100-7.5	7.5V, 0~13.6A	±1%	120mV	81%
SE-100-9	9V, 0~11.2A	±1%	120mV	81%
SE-100-12	12V, 0~8.5A	±1%	120mV	83%
SE-100-15	15V, 0~7.0A	±1%	120mV	84%
SE-100-24	24V, 0~4.5A	±1%	120mV	86%
SE-100-48	48V, 0~2.3A	±1%	150mV	86%

OE 100 10	101,0 2.071	± 170	1001111	0070
SE-200 Seri	es			c 91 1 us
Model No.	Output	Tol.	R&N	Effi.
SE-200-3.3	3.3V, 0~40A	±2%	150mV	75%
SE-200-5	5V, 0~40A	±2%	150mV	79%
SE-200-7.5	7.5V, 0~27A	±2%	150mV	82%
SE-200-12	12V, 0~17A	±1%	150mV	85%
SE-200-15	15V, 0~14A	±1%	150mV	85%
SE-200-24	24V, 0~8.8A	±1%	150mV	87%
SE-200-27	27V, 0~7.8A	±1%	200mV	88%
SE-200-36	36V, 0~5.9A	±1%	240mV	89%
SE-200-48	48V, 0~4.4A	±1%	240mV	89%

_				
SE-350 Seri	es			c FAL us
Model No.	Output	Tol.	R&N	Effi.
SE-350-3.3	3.3V, 0~60A	+3%, -4.5%	150mV	74.0%
SE-350-5	5V, 0~60A	±3.0%	150mV	78.0%
SE-350-7.5	7.5V, 0~46A	±2.0%	150mV	80.0%
SE-350-12	12V, 0~29A	±1.5%	150mV	83.0%
SE-350-15	15V, 0~23.2A	±1.0%	150mV	84.0%
SE-350-24	24V, 0~14.6A	±1.0%	150mV	87.0%
SE-350-27	27V, 0~13A	±1.0%	200mV	88.0%
SE-350-36	36V, 0~9.7A	±1.0%	240mV	87.5%
SE-350-48	48V, 0~7.3A	±1.0%	240mV	87.5%
T CF 450 C				6 1
SE-450 Seri	es			c FAL us
Model No.	Output	Tol.	R&N	Effi.

3.3V, 0~75A

5V, 0~75A

12V, 0~37.5A

15V, 0~30A

24V, 0~18.8A

36V, 0~12.5A

48V, 0~9.4A

200mV

200mV

200mV

200mV

200mV

200mV

200mV

 $\pm 3\%$

 $\pm 3\%$

±1%

±1%

±1.5%

±1%

±1%

74%

78%

83%

84%

86%

86%

88%

SE-450-3.3

SE-450-5

SE-450-12

SE-450-15

SE-450-24

SE-450-36

SE-450-48

Enclosed-SE Series 600~1500W Single Output





Features

- AC input selectable by switch (SE-600/1000) AC input 180~264VAC only (SE-1500)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Forced air cooling by built-in DC fan
- Built-in remote sense function
- DC OK, remote ON/OFF control (SE-1000/1500)
- 100% full load burn-in test
- · LED indicator for power on
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		SE-600	SE-1000	SE-1500		
AC input vol	tage range	115/230VAC by switch		180~264VAC		
AC inrush cu	urrent (max.)	Cold start, 60A at 230VAC	Cold start, 55A at 230VAC	Cold start, 60A at 230VAC		
DC adjustme	ent range	±10% rated output voltage				
Overload	Range	105%~125%				
protection	Туре	Shut down o/p voltage, re-power on to recover				
Over voltage	protection	115%~140% Shut down o/p voltage, re-power on to recover				
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC		
Working tem	perature	-20~+60°C (refer to output derating curve)		-20~+70°C (refer to output derating curve)		
Safety stand	lards	UL60950-1 approved				
EMC standar	rds	Design refer to EN55022 class B				
Connection		Terminal block with cover for input and o	output (SE-1000/1500: copper pillars for	output)		
Dimension (LxWxH)(mm)		247x 127x 63.5	278x 127x 63.5	278x 177.8x 63.5		
Case No.		926A	935B	982A		
Packing		6pcs / 13.4kg	6pcs / 16kg	4pcs / 14.2kg		

600W				SE-600
Model No.	Output	Tol.	R&N	Effi.
SE-600-5	5V, 0~100A	±2%	150mV	78%
SE-600-12	12V, 0~50A	±1%	150mV	83%
SE-600-15	15V, 0~40A	±1%	150mV	84%
SE-600-24	24V, 0~25A	±1%	150mV	87%
SE-600-27	27V, 0~22.2A	±1%	150mV	87%
SE-600-36	36V, 0~16.6A	±1%	200mV	87%
SE-600-48	48V, 0~12.5A	±1%	200mV	88%

SE-600-48	48V, 0~12.5A	±1%	200mV	88%
1000W				SE-1000
Model No.	Output	Tol.	R&N	Effi.
SE-1000-5	5V, 0~150A	±1%	150mV	81%
SE-1000-9	9V, 0~100A	±1%	150mV	84%
SE-1000-12	12V, 0~83.3A	±1%	150mV	85%
SE-1000-15	15V, 0~66.7A	±1%	150mV	86%
SE-1000-24	24V, 0~41.7A	±1%	200mV	88%

±1%

200mV

48V, 0~20.8A

SE-1000-48

1500W				SE-1500
Model No.	Output	Tol.	R&N	Effi.
SE-1500-5	5V, 0~300A	±2%	150mV	81%
SE-1500-12	12V, 0~125A	±1%	150mV	85%
SE-1500-15	15V, 0~100A	±1%	150mV	85%
SE-1500-24	24V, 0~62.5A	±1%	150mV	87%
SE-1500-27	27V, 0~55.6A	±1%	150mV	88%
SE-1500-48	48V, 0~31.3A	±1%	150mV	89%



We provide specification, drawing, test report and more information, please visit our web site http://www.meanwell.com



Who can provide you better services and be a trustworthy partner in the power industry?

- "MEAN WELL" tries to be -



Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.

89%

Enclosed-LRS Series

35~100W Low Profile





Features

- No load power consumption <0.2W for 35W/50W;
 <0.3W for 75W/100W
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Ultra compact and 1U low profile
- Withstand 5G vibration test
- High operating temperature up to 70°C
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1,-2-16 for household appliances
- Operating altitude up to 5000 meters
- High efficiency, long life and high reliability
- LED indicator for power on
- Low cost
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		LRS-35	LRS-50	LRS-75	LRS-100		
AC input voltage rai	nge	85~264VAC ; 120~370VDC	,				
AC inrush current (I	max.)	Cold start, 40A at 230VAC			50A at 230VAC		
DC adjustment rang	е	±10% by potentiometer					
Overload	Range	110%~150%					
protection	Туре	Hiccup mode, auto-recove	iccup mode, auto-recovery				
Over voltage	Range	115%~135% rated output voltage					
protection	Туре	Shut down o/p voltage, re-	Shut down o/p voltage, re-power on to recover				
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.25kVAC, 1 minute					
Working temperatur	е	-30~+70°C (refer to output derating curve)					
Safety standards		UL60950-1, IEC/EN60950-1, IEC/EN61558-1, EN61558-2-16, IEC/EN60335-1, CCC GB4943 approved					
EMC standards		EN55022 class B, EN55014, EN61000-3-2, 3, EN61000-4,2,3,4,5,6,8,11, GB9254					
Connection		5P/9.5mm pitch terminal block 7P/9.5mm pitch term			7P/9.5mm pitch terminal block		
Dimension (LxWxH) (mm)		99x 82x 30		99x 97x 30	129x 97x 30		

35W				LRS-35
Model No.	Output	Tol.	R&N	Effi.
LRS-35-5	5V, 0~7A	±2%	80mV	82.0%
LRS-35-12	12V, 0~3A	±1%	120mV	86.0%
LRS-35-15	15V, 0~2.4A	±1%	120mV	86.0%
LRS-35-24	24V, 0~1.5A	±1%	150mV	88.0%
LRS-35-36	36V, 0~1A	±1%	200mV	88.0%
LRS-35-48	48V, 0~0.8A	±1%	200mV	89.0%

75W				LRS-75
Model No.	Output	Tol.	R&N	Effi.
LRS-75-5	5V, 0~14A	±2%	100mV	84.0%
LRS-75-12	12V, 0~6A	±1%	120mV	87.0%
LRS-75-15	15V, 0~5A	±1%	120mV	88.0%
LRS-75-24	24V, 0~3.2A	±1%	150mV	89.0%
LRS-75-36	36V, 0~2.1A	±1%	200mV	89.0%
LRS-75-48	48V, 0~1.6A	±1%	200mV	90.0%

50W				LRS-50
Model No.	Output	Tol.	R&N	Effi.
LRS-50-3.3	3.3V, 0~10A	±3%	80mV	78.0%
LRS-50-5	5V, 0~10A	±2%	80mV	83.0%
LRS-50-12	12V, 0~4.2A	±1%	120mV	87.0%
LRS-50-15	15V, 0~3.4A	±1%	120mV	88.0%
LRS-50-24	24V, 0~2.2A	±1%	150mV	88.0%
LRS-50-36	36V, 0~1.45A	±1%	200mV	89.0%
LRS-50-48	48V, 0~1.1A	±1%	200mV	90.0%

100W				
Model No.	Output	Tol.	R&N	Effi.
LRS-100-3.3	3.3V, 0~20A	±3%	100mV	84.5%
LRS-100-5	5V, 0~18A	±2%	100mV	86.0%
LRS-100-12	12V, 0~8.5A	±1%	120mV	88.0%
LRS-100-15	15V, 0~7A	±1%	120mV	88.5%
LRS-100-24	24V, 0~4.5A	±1%	150mV	90.0%
LRS-100-36	36V, 0~2.8A	±1%	200mV	90.5%
LRS-100-48	48V, 0~2.3A	±1%	200mV	91.0%

Enclosed-LRS Series

150~350W Low Profile





Features

• Protections:

- No load power consumption <0.5W for 150W;
 <0.75W for 200W/350W
- AC input selectable by switch (LRS-150F Universal AC input / Full range)
- Withstand 300VAC surge input for 5 seconds
- Ultra compact and 1U low profile
- · Withstand 5G vibration test
- High operating temperature up to 70°C
- Short circuit / Overload / Over voltage / Over temp.

 Cooling by free air convection (150W/200W);
- forced air cooling by built-in DC fan (350W)

 Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1,-2-16 for household appliances (150W)
- Operating altitude up to 5000 meters
- LED indicator for power on
- High efficiency, long life and high reliability
- Low cost
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		LRS-150F	LRS-150	LRS-200	LRS-350	
AC input volta	ge range	85~264VAC; 120~370VDC	115 / 230VAC by switch		· · · · · · · · · · · · · · · · · · ·	
AC inrush cur	rent(max.)	Cold start, 70A at 230VAC		Cold start, 60A at 2	230VAC	
OC adjustmen	t range	±10% by potentiometer				
Overload	Range	110%~140%				
rotection	Туре	Hiccup mode, auto-recovery				
ver voltage	Range	115%~145% rated output voltage				
rotection	Туре	Shut down o/p voltage, re-power on to recover				
Vithstand volt	age	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.25kVAC		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Vorking temp	erature	-30~+70°C		-25~+70°C (refer to output derating curve)		
Safety standards		UL60950-1, IEC/EN60950-1, IEC/EN61558-1, EN61558-2-16, IEC/EN60335-1, CCC GB4943 approved		UL60950-1 approved		
EMC standards		EN55022 class B, EN55014, EN61000-3-2, 3, EN61000-4,2,3,4,5,6,8,11, GB9254		Design refer to EN55022 class A		
Connection		7P/9.5mm pitch terminal block		9P/9.5mm pitch terminal block		
Dimension (LxWxH) (mm)		159x 97x 30		215x 115x 30		

I	LRS-150 Ser	ies	c 71 2 us	(Cat)	CB(€
	Model No.	Output	Tol.	R&N	Effi.
	LRS-150-12	12V, 0~12.5A	±1%	150mV	87.5%
	LRS-150-15	15V, 0~10A	±1%	150mV	89.0%
	LRS-150-24	24V, 0~6.5A	±1%	200mV	89.0%
	LRS-150-36	36V, 0~4.3A	±1%	200mV	89.0%
	LRS-150-48	48V, 0~3.3A	±1%	200mV	90.0%

LRS-150F Se	ries	. 91 °.	s 🖺 (((%+)	CB (E	
Model No.	Output	Tol.	R&N	Effi.	
LRS-150F-5	5V, 0~22A	±2%	100mV	85.0%	
LRS-150F-12	12V, 0~12.5A	±1%	150mV	87.5%	
LRS-150F-15	15V, 0~10A	±1%	150mV	89.0%	
LRS-150F-24	24V, 0~6.5A	±1%	200mV	89.0%	
LRS-150F-36	36V, 0~4.3A	±1%	200mV	89.0%	
LRS-150F-48	48V, 0~3.3A	±1%	200mV	90.0%	

LRS-200 Ser	c FL °us			
Model No.	Output	Tol.	R&N	Effi.
LRS-200-3.3	3.3V, 0~40A	±3%	150mV	83.0%
LRS-200-4.2	4.2V, 0~40A	±4%	150mV	86.0%
LRS-200-5	5V, 0~40A	±3%	150mV	87.0%
LRS-200-12	12V, 0~17A	±1.5%	150mV	87.5%
LRS-200-15	15V, 0~14A	±1%	150mV	88.0%
LRS-200-24	24V, 0~8.8A	±1%	150mV	89.5%
LRS-200-36	36V, 0~5.9A	±1%	200mV	89.5%
LRS-200-48	48V, 0~4.4A	±1%	200mV	90.0%

LRS-350 Series						
Model No.	Output	Tol.	R&N	Effi.		
LRS-350-3.3	3.3V, 0~60A	±4%	150mV	79.5%		
LRS-350-4.2	4.2V, 0~60A	±4%	150mV	81.5%		
LRS-350-5	5V, 0~60A	±3%	150mV	83.5%		
LRS-350-12	12V, 0~29A	$\pm 1.5\%$	150mV	85.0%		
LRS-350-15	15V, 0~23.2A	±1%	150mV	86.0%		
LRS-350-24	24V, 0~14.6A	±1%	150mV	88.0%		
LRS-350-36	36V, 0~9.7A	±1%	200mV	88.5%		
LRS-350-48	48V, 0~7.3A	±1%	200mV	89.0%		

75~240W Single Output





Features

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature (SP-150 / 200 / 240)
- Cooling by free air convection (SP-75 / 100 / 150)
- Forced air cooling by built-in DC fan (SP-200 / 240)
- Optional remote ON/OFF control (SP-75~200)
- Built-in fan speed control (SP-200)
- Built-in fan ON/OFF control (SP-240)
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		SP-75	SP-100	SP-150	SP-200	SP-240		
AC input volta	age range	85~264VAC; 120~37	OVDC			88~264VAC; 124~370VDC		
AC inrush current (max.)		Cold start, 45A at 230VAC	Cold start, 35A at 230VAC	Cold start, 45A at 230VAC	Cold start, 50A at 230VAC	Cold start, 40A at 230VAC		
DC adjustmen	t range	-5%~+10% rated out	-5%~+10% rated output voltage					
Overload	Range	105%~150%				105%~135%		
protection	Type	Constant current lim	Hiccup mode, auto-recovery					
Over voltage	Range	115%~135%	110%~135%			120%~150%		
protection	tection Type Shut off, AC recycle to re-start							
Withstand vol	and voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute							
Working temp	erature	-10~+60°C		-10~+55°C	-10~+60°C	-20~+70°C		
Safety standa	rds	UL60950-1, TUV EN60950-1, GB4943(SP-200 only) approved						
EMC standard	S	EN55022 class B, EN	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, GB9254(SP-200 only)					
Connection Dimension (LxWxH)(mm) Case No.		5P / 9.5mm pitch	7P / 9.5mm pitch ter	minal block with cover				
		179x 97x 33	179x 99x 45	199x 99x 50	199x 99x 50	190x 93x 50		
		920A	915A	916A	916B	987A		
Packing		20pcs/12.0kg	20pcs/14.3kg	20pcs/16.4kg	20pcs/17.9kg	18pcs/15.4kg		

75W				SP-75	
Model No.	Output	Tol.	R&N	Effi.	
SP-75-3.3	3.3V, 0~15A	±2%	80mV	70.0%	
SP-75-5	5V, 0~15A	±2%	80mV	76.0%	
SP-75-7.5	7.5V, 0~10A	±2%	80mV	79.0%	
SP-75-12	12V, 0~6.3A	±2%	80mV	81.0%	
SP-75-13.5	13.5V, 0~5.6A	±2%	80mV	82.0%	
SP-75-15	15V, 0~5.0A	±2%	80mV	82.0%	
SP-75-24	24V, 0~3.2A	±1%	100mV	83.0%	
SP-75-27	27V, 0~2.8A	±1%	100mV	83.0%	
SP-75-48	48V, 0~1.6A	±1%	100mV	83.0%	

	·			
100W				SP-100
Model No.	Output	Tol.	R&N	Effi.
SP-100-3.3	3.3V, 0~20.0A	±2%	100mV	75.0%
SP-100-5	5V, 0~20.0A	±2%	100mV	79.0%
SP-100-7.5	7.5V, 0~13.5A	±2%	100mV	82.0%
SP-100-12	12V, 0~8.50A	±2%	100mV	82.5%
SP-100-13.5	13.5V, 0~7.50A	±2%	100mV	83.0%
SP-100-15	15V, 0~6.70A	±2%	100mV	84.0%
SP-100-24	24V, 0~4.20A	±1%	150mV	87.0%
SP-100-27	27V, 0~3.80A	±1%	150mV	86.0%
SP-100-48	48V, 0~2.10A	±1%	250mV	84.0%

48hrs delivery-

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.

150W				SP-150
Model No.	Output	Tol.	R&N	Effi.
SP-150-3.3	3.3V, 0~30.0A	±2%	100mV	73.0%
SP-150-5	5V, 0~30.0A	±2%	100mV	77.5%
SP-150-7.5	7.5V, 0~20.0A	±2%	100mV	81.0%
SP-150-12	12V, 0~12.5A	±2%	100mV	84.0%
SP-150-13.5	13.5V, 0~11.2A	±2%	100mV	84.0%
SP-150-15	15V, 0~10.0A	±2%	100mV	85.0%
SP-150-24	24V, 0~6.30A	±1%	150mV	85.0%
SP-150-27	27V, 0~5.60A	±1%	150mV	85.0%
SP-150-48	48V, 0~3.20A	±1%	250mV	85.0%
200W				CD 200

	200W				SP-200
	Model No.	Output	Tol.	R&N	Effi.
	SP-200-3.3	3.3V, 0~40.0A	±2%	100mV	69.0%
	SP-200-5	5V, 0~40.0A	±2%	100mV	76.0%
	SP-200-7.5	7.5V, 0~26.7A	±2%	100mV	78.5%
	SP-200-12	12V, 0~16.7A	±2%	100mV	84.0%
	SP-200-13.5	13.5V, 0~14.9A	±2%	100mV	84.0%
	SP-200-15	15V, 0~13.4A	±2%	100mV	84.0%
	SP-200-24	24V, 0~8.40A	±1%	150mV	85.0%
	SP-200-27	27V, 0~7.50A	±1%	150mV	85.0%
	SP-200-48	48V, 0~4.20A	±1%	250mV	85.0%
-	24014				CD 240
	240W				SP-240

Model No.	Output	Tol.	R&N	Effi.	
SP-240-5	5V, 0~45A	±2%	150mV	79.0%	
SP-240-7.5	7.5V, 0~32A	±2%	150mV	83.0%	
SP-240-12	12V, 0~20A	±1%	150mV	86.0%	
SP-240-15	15V, 0~16A	±1%	150mV	86.0%	
SP-240-24	24V, 0~10A	±1%	150mV	87.0%	
SP-240-30	30V, 0~8.0A	±1%	150mV	88.0%	
SP-240-48	48V, 0~5.0A	±1%	150mV	89.0%	

320~750W Single Output





Features

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in fan speed control (SP-320)
- Built-in remote sense function and ON/OFF control (SP-480/750 & PSP-600)
- Current sharing up to 2400W (3+1) (PSP-600)
- With DC OK signal output (PSP-600)
- With PG/PF signal output (SP-750)
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		SP-320	SP-480	PSP-600	SP-750			
AC input vo	Itage range	88~264VAC	85~264VAC	88~264VAC	90~264VAC			
AC inrush o	urrent (max.)	Cold start, 40A at 230VAC			Cold Start, 45A at 230VAC			
DC adjustm	ent range	±10% rated output voltage						
	Range	105%~135%	105%~145%	105%~135%	105%~125%			
Overload protection	Туре	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery	Constant current limiting, auto-recovery	Constant current limiting, hiccup after 3sec.			
Over voltag	e protection	115%~145% 115%~140%						
Withstand v	oltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC(short for SP-480), 1 minute						
Working ter	nperature	-20~+65°C	-20~+60°C					
Safety stan	dards	UL60950-1, TUV EN60950-1 approved; GB4943 approved also for SP-320 (expect for 3.3V/ 5PNC/ 36V)						
EMC standa	rds	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN61000-6-2(SP-480/750), GB9254 (SP-320 only)						
Connection		9P / 9.5mm pitch terminal block with cover	9P / 11mm pitch terminal block with cover	7+8P / 9.5mm pitch terminal block with cover	5P / 10mm pitch terminal block with cover for input; copper pillars for output			
Dimension (LxWxH)(mm)		215x115x50	278x127x43	170x120x93	278x127x63.5			
Case No.		912G	929A	910A	919A			
Packing		12pcs / 14.0kg	6pcs / 11.3kg	8pcs / 15.5kg	6pcs / 18.4kg			

SP-320 Series		Pc Nus	(Cas)	CB (€
Model No	Output	Tol	D g.NI	Effi

Model No.	Output	Tol.	R&N	Effi.
*SP-320-3.3	3.3V, 0~60.0A	±1%	150mV	74%
SP-320-5	5V, 0~55.0A	±2%	150mV	79%
*SP-320-5PNC	5V, 0~55.0A	±2%	150mV	80%
SP-320-7.5	7.5V, 0~40.0A	±2%	150mV	83%
SP-320-12	12V, 0~25.0A	±1%	150mV	86%
SP-320-13.5	13.5V, 0~22.0A	±1%	150mV	86%
SP-320-15	15V, 0~20.0A	±1%	150mV	86%
SP-320-24	24V, 0~13.0A	±1%	150mV	87%
SP-320-27	27V, 0~11.7A	±1%	200mV	88%
*SP-320-36	36V, 0~8.80A	±1%	220mV	87%
SP-320-48	48V, 0~6.70A	±1%	240mV	89%

* Without (CGS&E) models

* SP-320-5PNC with conformal coating and high ambient temperature operation ability is suitable for LED moving sign applications, MOQ required.

SP-480 Series	P: Nus Land CB (E

Output	Tol.	R&N	Effi.
3.3V, 0~85A	$\pm 2.0\%$	80mV	73%
5V, 0~85A	$\pm 2.0\%$	80mV	79%
12V, 0~43A	±1.5%	120mV	85%
15V, 0~35A	±1.5%	150mV	85%
24V, 0~22A	±1.0%	150mV	87%
48V, 0~11A	±1.0%	240mV	89%
	3.3V, 0~85A 5V, 0~85A 12V, 0~43A 15V, 0~35A 24V, 0~22A	3.3V, 0~85A ±2.0% 5V, 0~85A ±2.0% 12V, 0~43A ±1.5% 15V, 0~35A ±1.5% 24V, 0~22A ±1.0%	3.3V, 0-85A ±2.0% 80mV 5V, 0-85A ±2.0% 80mV 12V, 0-43A ±1.5% 120mV 15V, 0-35A ±1.5% 150mV 24V, 0-22A ±1.0% 150mV

PSP-600 Series	Parallel (P) c AL us A E CB(E

Model No.	Output	Tol.	R&N	Effi.
	Output			
PSP-600-5	5V, 0~80A	±2%	180mV	79%
PSP-600-12	12V, 0~50A	±1%	240mV	84%
PSP-600-13.5	13.5V, 0~44.5A	±1%	240mV	85%
PSP-600-15	15V, 0~40A	±1%	240mV	85%
PSP-600-24	24V, 0~25A	±1%	240mV	86%
PSP-600-27	27V, 0~22.2A	±1%	240mV	86%
PSP-600-48	48V, 0~12.5A	±1%	300mV	87%

Model No.	Output	Tol.	R&N	Effi.
SP-750-5	5V, 0~120A	±2%	120mV	80%
SP-750-12	12V, 0~62.5A	±1%	120mV	85%
SP-750-15	15V, 0~50.0A	±1%	120mV	87%
SP-750-24	24V, 0~31.3A	±1%	120mV	89%
SP-750-27	27V, 0~27.8A	±1%	120mV	89%
SP-750-48	48V, 0~15.7A	±1%	120mV	90%



Who can provide you better services and be a trustworthy partner in the power industry?

75~200W Low Profile





Features

- Ultra low profile: 30mm
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature (RSP-100/150/200)
- Cooling by free air convection
- Built-in constant current limiting circuit (RSP-75/100/150)
- Remote ON/OFF control (RSP-75/100/150)
- LED indicator for power on
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		RSP-75	RSP-100	RSP-150	RSP-200
AC input voltage ran	nge	85~264VAC; 120~370VDC			88~264VAC; 124~370VDC
AC inrush current (r	nax.)	Cold start, 35A at 230VAC	30A at 230VAC	45A at 230VAC	40A at 230VAC
DC adjustment rang	е	-5%~+10% rated output voltage			±10% rated output voltage
Overload	Range	105%~135%	105%~150%		
protection	Туре	Constant current limiting, auto-re	ecovery		Hiccup mode, auto-recovery
Over voltage	Range	110%~135%		115%~145%	
protection	Туре	Shut down O/P voltage, re-power	on to recover		
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperatur	e	-25~+70°C	-30~+70°C (refe	er to output derat	ing curve)
Safety standards		UL60950-1, TUV EN60950-1, EN61558-1, EN61558-2-16, CCC GB4943 approved; UL62368-1 approved for RSP-150 only		UL60950-1, TUV EN60950-1, CCC GB4943 approved	
EMC standards		EN55022 class B, EN61000-3-2,	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, GB9254		
Connection		5P / 9.5mm pitch terminal block	7P / 9.5mm pitc	h terminal block	9P / 9.5mm pitch terminal block
Dimension (LxWxH)	(mm)	159x97x30	179x99x30	199x99x30	215x115x30

75W				RSP-75
Model No.	Output	Tol.	R&N	Effi.
RSP-75-3.3	3.3V, 0~15A	±2%	80mV	76.0%
RSP-75-5	5V, 0~15A	±2%	80mV	82.0%
RSP-75-7.5	7.5V, 0~10A	±2%	80mV	84.0%
RSP-75-12	12V, 0~6.3A	±2%	120mV	85.0%
RSP-75-13.5	13.5V, 0~5.6A	±2%	120mV	85.0%
RSP-75-15	15V, 0~5A	±2%	120mV	86.0%
RSP-75-24	24V, 0~3.2A	±1%	120mV	87.0%
RSP-75-27	27V, 0~2.8A	±1%	120mV	88.0%
RSP-75-48	48V, 0~1.6A	±1%	200mV	89.0%

■ 150W			R	SP-150
Model No.	Output	Tol.	R&N	Effi.
RSP-150-3.3	3.3V, 0~30A	±2%	100mV	81.5%
RSP-150-5	5V, 0~30A	±2%	100mV	87.0%
RSP-150-7.5	7.5V, 0~20A	±2%	100mV	88.5%
RSP-150-12	12V, 0~12.5A	±2%	100mV	90.0%
RSP-150-13.5	13.5V, 0~11.2A	±2%	100mV	87.5%
RSP-150-15	15V, 0~10A	±2%	100mV	88.5%
RSP-150-24	24V, 0~6.3A	±1%	150mV	89.0%
RSP-150-27	27V, 0~5.6A	±1%	150mV	89.5%
RSP-150-48	48V, 0~3.2A	±1%	250mV	90.0%

100W			R	SP-100
Model No.	Output	Tol.	R&N	Effi.
RSP-100-3.3	3.3V, 0~20A	±2%	100mV	83.0%
RSP-100-5	5V, 0~20A	±2%	100mV	86.0%
RSP-100-7.5	7.5V, 0~13.5A	±2%	100mV	87.0%
RSP-100-12	12V, 0~8.5A	±1%	100mV	86.0%
RSP-100-13.5	13.5V, 0~7.5A	±1%	100mV	86.5%
RSP-100-15	15V, 0~6.7A	±1%	100mV	87.0%
RSP-100-24	24V, 0~4.2A	±1%	150mV	87.0%
RSP-100-27	27V, 0~3.8A	±1%	150mV	87.0%
RSP-100-48	48V, 0~2.1A	±1%	250mV	88.0%

200W			R	SP-200
Model No.	Output	Tol.	R&N	Effi.
RSP-200-2.5	2.5V, 0~40A	±2%	100mV	79.5%
RSP-200-3.3	3.3V, 0~40A	±2%	100mV	81.5%
RSP-200-4	4V, 0~40A	±2%	100mV	84.0%
RSP-200-5	5V, 0~40A	±2%	150mV	85.5%
RSP-200-7.5	7.5V, 0~26.7A	±2%	150mV	89.0%
RSP-200-12	12V, 0~16.7A	±1%	150mV	89.0%
RSP-200-13.5	13.5V, 0~14.9A	±1%	150mV	89.0%
RSP-200-15	15V, 0~13.4A	±1%	150mV	89.5%
RSP-200-24	24V, 0~8.4A	±1%	150mV	89.5%
RSP-200-27	27V, 0~7.5A	±1%	200mV	89.0%
RSP-200-36	36V, 0~5.56A	±1%	220mV	90.0%
RSP-200-48	48V, 0~4.2A	±1%	240mV	90.0%

320~750W Low Profile



RSP-500

Effi.

81.0%

83.0%

R&N

120mV

120mV



Features

- 1U low profile
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temp. / Fan alarm (RSP-750)
- Forced air cooling by built-in DC fan
- Vo can be trimmed 40~110% by 2~5.5VDC external control signal (RSP-750)
- Io can be trimmed 40~110% by 2~5.5VDC external control signal (RSP-750)
- Built-in remote sense and ON/OFF control (RSP-500/750)
- Built-in auxiliary power (RSP-750)
- DC OK signal (RSP-750)
- LED indicator for power on
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



				(ROT 520 GITY)	
Model No. RSP-320 RSP-500		RSP-500	RSP-750		
AC input volta	AC input voltage range 88~264VAC; 124~370VDC 85~264VAC; 120~370VDC 90~264VAC; 127~370VDC			90~264VAC; 127~370VDC	
AC inrush curi	rent(max.)	ent(max.) Cold start, 40A at 230VAC			
DC adjustment	range	±10% rated output voltage			
Overload	Range	105%~135%	105%~130%	105%~125%	
protection	Туре	Hiccup mode, auto-recovery	Constant current limiting, auto-recov	ery	
Over voltage	Range	115%~145%			
protection Type		Shut down O/P voltage, re-power on to recover			
Withstand volt	age	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG	: 0.5kVAC		
Working tempe	erature	-30~+70°C (refer to output derating cur	ve)		
Safety standar	ds	UL60950-1, TUV EN60950-1 approved;	CCC GB4943 approved for RSP-320 or	nly	
EMC standards	S	EN55022 class B, EN61000-3-2,3, EN61	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(RSP-500/750), GB9254(RSP-320 only)		
	Input		3P / 9.5mm pitch terminal block	3P / 10mm pitch terminal block with cover	
Connection	Output	9P / 9.5mm pitch terminal block	6P / 11mm pitch terminal block	Copper pillars	
Dimension (Lx	WxH) (mm)	215x115x30	230x127x40.5	250x127x41	
Case No.		207A	226A	212A	

500W

Model No.

RSP-500-3.3

RSP-500-4

320W			F	RSP-320
Model No.	Output	Tol.	R&N	Effi.
RSP-320-2.5	2.5V, 0~60A	±2%	100mV	75.5%
RSP-320-3.3	3.3V, 0~60A	±2%	100mV	79.5%
RSP-320-4	4V, 0~60A	±2%	100mV	81.0%
RSP-320-5	5V, 0~60A	±2%	150mV	83.0%
*RSP-320-5CC	5V, 0~60A	±2%	150mV	83.0%
RSP-320-7.5	7.5V, 0~40A	±2%	150mV	88.0%
RSP-320-12	12V, 0~26.7A	±1%	150mV	88.0%
RSP-320-13.5	13.5V, 0~23.8A	±1%	150mV	88.0%
RSP-320-15	15V, 0~21.4A	±1%	150mV	88.5%
RSP-320-24	24V, 0~13.4A	±1%	150mV	89.0%
RSP-320-27	27V, 0~11.9A	±1%	200mV	89.0%
RSP-320-36	36V, 0~8.9A	±1%	220mV	89.5%
RSP-320-48	48V, 0~6.7A	±1%	240mV	90.0%
	with conformal coatirns, MOQ required.	ng is suitab	le for LED m	oving

RSP-500-5	5V, 0~90A	±2%	150mV	84.0%
RSP-500-12	12V, 0~41.7A	±1%	150mV	88.0%
RSP-500-15	15V, 0~33.4A	±1%	150mV	88.0%
RSP-500-24	24V, 0~21A	±1%	150mV	89.0%
RSP-500-27	27V, 0~18.6A	±1%	150mV	89.5%
RSP-500-48	48V, 0~10.5A	±1%	150mV	90.5%
750W			R	SP-750
Model No.	Output	Tol.	R&N	Effi.
Model No. RSP-750-5	Output 5V, 0~100A	Tol. ±2%	R&N 150mV	Effi . 82.0%
	•			
RSP-750-5	5V, 0~100A	±2%	150mV	82.0%
RSP-750-5 RSP-750-12	5V, 0~100A 12V, 0~62.5A	±2% ±1%	150mV 150mV	82.0% 87.0%
RSP-750-5 RSP-750-12 RSP-750-15	5V, 0~100A 12V, 0~62.5A 15V, 0~50A	±2% ±1% ±1%	150mV 150mV 150mV	82.0% 87.0% 89.0%
RSP-750-5 RSP-750-12 RSP-750-15 RSP-750-24	5V, 0~100A 12V, 0~62.5A 15V, 0~50A 24V, 0~31.3A	±2% ±1% ±1% ±1%	150mV 150mV 150mV 150mV	82.0% 87.0% 89.0% 90.5%

Output

4V, 0~90A

3.3V, 0~90A

Tol.

±2%

±2%

1000~3000W Single Output





Features

- Universal AC input / Full range (RSP-1000/1500/2000) AC input 180~264VAC only (RSP-2400/3000)
- Built-in active PFC function
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature / Fan alarm (RSP-2400/3000)
- Forced air cooling by built-in DC fan
- High power density up to 21.4W/in³ (RSP-2000)
- Vo can be trimmed by external resistor or external control signal
- Built-in current sharing
- Built-in remote sense and ON/OFF control
- Built-in auxiliary power
- DC OK signal (RSP-1000/2000)
- Alarm signal output (RSP-1500/2000/2400/3000)

Parallel P. M. CBCE

• 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		RSP-1000	RSP-1500	RSP-2000	RSP-2400	RSP-3000		
AC input volt	age range	90~264VAC; 127~370VDC			180~264VAC; 254~3	370VDC		
AC inrush current (max.) DC adjustment range		Cold start, 40A at 230VAC	Cold start, 60A at 230VAC	Cold start, 50A at 230VAC	Cold start, 60A at 230VAC			
		±10% rated output voltage	-30%~+10% rated output voltage	±10% rated output voltage				
	Range	105%~125%	105%~135%	105%~125%	100%~112%			
Overload protection	Туре	Constant current limiting, auto-recovery	Constant current limiting, shut off after 5 sec., re-power on to recover		Constant current limiting, shut off after 5 sec., re-power on to recover (can adjust to continuous constant current limiting)			
Over voltage Range		115%~135%	115%~140%	120%~145%	115%~140%			
protection	Туре	Shut down O/P voltage, re-power on to recover						
Withstand vo	tage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC						
Working temp	erature	-20~+60°C	-20~+70°C	-35~+70°C	-20~+70°C			
Safety standa	rds	UL60950-1, TUV EN60950-1 approved						
EMC standard	ls	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(RSP-1000/2000)						
Connection	Input	3P/10mm pitch terminal block with cover	3P/13mm pitch terminal block with cover	3P/10mm pitch terminal block with cover	3P/13mm pitch term	inal block with cover		
	Output	Copper pillars						
Dimension (L	xWxH) (mm)	295x127x41	278x127x83.5	295x127x41	278x177.8x63.5			
Case No.		952B	943A	952D	982B			
Packing		1.95kg; 6pcs / 12.7kg / 1.15CUFT	3.0kg; 4pcs / 13kg / 1.19CUFT	1.95kg; 6pcs / 12.7kg / 1.15CUFT	3.3kg; 4pcs/14.2kg/1.89CUFT	4kg; 4pcs / 16kg / 1.89CUF		

		RS	P-1000
Output	Tol.	R&N	Effi.
12V, 0~60A	±1%	150mV	83%
15V, 0~50A	±1%	150mV	85%
24V, 0~40A	±1%	150mV	88%
27V, 0~37A	±1%	150mV	88%
48V, 0~21A	±1%	150mV	90%
	12V, 0~60A 15V, 0~50A 24V, 0~40A 27V, 0~37A	12V, 0~60A ±1% 15V, 0~50A ±1% 24V, 0~40A ±1% 27V, 0~37A ±1%	Output Tol. R&N 12V, 0~60A ±1% 150mV 15V, 0~50A ±1% 150mV 24V, 0~40A ±1% 150mV 27V, 0~37A ±1% 150mV

1500W			R:	SP-1500)
Model No.	Output	Tol.	R&N	Effi.	
RSP-1500-5	5V, 0~240A	±2%	150mV	80%	
RSP-1500-12	12V, 0~125A	±1%	150mV	87%	
RSP-1500-15	15V, 0~100A	±1%	150mV	87%	
RSP-1500-24	24V, 0~63A	±1%	150mV	90%	
RSP-1500-27	27V, 0~56A	±1%	150mV	90%	
RSP-1500-48	48V, 0~32A	±1%	200mV	91%	

6pcs / 12.	7kg / 1.15C	CUFT 4pcs	j; / 13kg / 1.1 [,]	9CUFT	6pcs / 12.7kg /	1.15CUFT	3.3kg; 4pcs / 14.2kg / 1.89CUF	4kg; FT 4pcs / 16kg	g / 1.89CUFT
		RS	SP-1000		2000W			F	RSP-2000
utput	Tol.	R&N	Effi.		Model No.	Outp	ut Tol.	R&N	Effi.
, 0~60A	±1%	150mV	83%		RSP-2000-12	12V, 0~	100A ±2%	150mV	87.0%
, 0~50A	±1%	150mV	85%		RSP-2000-24	24V, 0~	80A ±1%	200mV	90.5%
, 0~40A	±1%	150mV	88%		RSP-2000-48	48V, 0~	42A ±1%	300mV	92.0%
, 0~37A	±1%	150mV	88%		2400W			F	RSP-2400
/, 0~21A	±1%	150mV	90%		Model No.	Outp	ut Tol.	R&N	Effi.
					RSP-2400-12	12V, 0~1	66.7A ±1%	150mV	88.0%
		R	SP-1500		RSP-2400-24	24V, 0~1	100A ±1%	150mV	90.5%
ıtput	Tol.	R&N	Effi.		RSP-2400-48	48V, 0~!	50A ±1%	200mV	91.5%
0~240A	±2%	150mV	80%		3000W			F	RSP-3000
0~125A	±1%	150mV	87%		10000				101 0000
0~100A	±1%	150mV	87%		Model No.	Outp	ut Tol.	R&N	Effi.
0~63A	±1%	150mV	90%		RSP-3000-12	12V, 0~	200A ±1%	150mV	87.5%

24V, 0~125A

48V, 0~62.5A

±1%

±1%

150mV

200mV

90.0%

91.5%

RSP-3000-24

RSP-3000-48

150~10000W Single Output



5000W & 10000W Single Output

- 3**¢** 3-wire/△ 196~305VAC or 3**/** 4-wire/ Y 340~530VAC wide input range
- · Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit / Overload / Over voltage / Over temp./ Fan alarm
- Built-in fan speed control
- Vo can be trimmed 20~120% by 1~6VDC external control signal

- Io can be trimmed 20~100% by 1~5VDC external control signal
- Current sharing up to 4 units for RST-5000, up to 2 units for RST-10000
- · Built-in remote sense and ON/OFF control
- Built-in 12V/0.1A auxiliary power
- · Alarm signal output
- 5 years warranty

150~1500W Output Voltage Programmable

- Universal AC input / Full range
- · Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature • Built-in 12V/0.1A auxiliary
- Vo can be trimmed 20~110% by 1~5.5VDC external control signal to 4500W (SPV-1500)
- Forced air cooling by built-in DC 3 years warranty fan (except for SPV-150)
- Cooling by free air convection (SPV-150)
- · Built-in remote sense and ON/OFF control (SPV-1500)
- power and current sharing up





AC input voltage range 88~264VAC (SPV-150/300); 90~264VAC (SPV-1500)
DC adjustment range15%~+10% (SPV-150/300); ±5% (SPV-1500)
rated output voltage
AC inrush current Cold start, 40A (SPV-150/300);
60A (SPV-1500) at 230VAC
Overload protection
constant current limiting, auto-recovery
Over voltage protection 115%~140%(SPV-150/300); 120%~140%(SPV-1500)
shut down O/P voltage, re-power on to recover
Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature20~+65° C (SPV-150/300); -20~+70° C (SPV-1500)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
Packing

* SPV-150 Series

Model No.	Output	Tol.	R&N	Effi.			
SPV-150-12	12V, 0~12.5A	±1%	150mV	82%			
SPV-150-24	24V, 0~6.25A	±1%	150mV	83%			
SPV-150-48	48V, 0~3.125A	±1%	240mV	83%			
* CDV 200 Sorios							

SPV-300 Series

Model No.	Output	Tol.	R&N	Effi.	
SPV-300-12	12V, 0~25A	±1%	150mV	83.5%	
SPV-300-24	24V, 0~12.5A	±1%	150mV	85.0%	
SPV-300-48	48V, 0~6.25A	±1%	240mV	86.5%	

& SPV-1500 Sories

 71 V-1300 3C11C3					
Model No.	Output	Tol.	R&N	Effi.	
SPV-1500-12	12V, 0~125A	±1%	150mV	86.5%	
SPV-1500-24	24V, 0~63A	±1%	150mV	90.0%	
SPV-1500-48	48V, 0~32A	±1%	200mV	90.0%	

Parallel P : Nus A CBCE



AC input voltage range	3 ϕ 3-wire/ $△$ 196~305VAC or
	3 ¢ 4-wire/ Y 340~530VAC
DC adjustment range	-2%~+20% rated output voltage
AC inrush current	Cold start, 50A (RST-5000); 100A(RST-10000
	at 400VAC(3 \$ 4-wire/Y)
	75A(RST-5000); 150A(RST-10000)
	at 230VAC (3 ∮ 3-wire/△)
Overload protection	100%~112% constant current limiting,
	auto-recovery (can adjust to delay shut off)
Over voltage protection	125%~140% shut down O/P voltage,
	re-power on to recover
Setup, rise, hold up time $\dots \dots$	2200ms, 80ms, 14ms at full load
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC,
	O/P-FG: 0.5kVAC
Working temperature	-30~+70°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class A, EN61000-3-2,3,
	EN61000-4-2,3,4,5,6,8,11, EN61000-6-2

* RST-5000 Series

Model No.	Output	Tol.	R&N	Effi.
RST-5000-24	24V, 0~200A	±1%	150mV	89%
RST-5000-36	36V, 0~138A	±1%	200mV	90%
RST-5000-48	48V, 0~105A	±1%	200mV	91%

* RST-10000 Series

Model No.	Output	Tol.	R&N	Effi.
RST-10000-24	24V, 0~400A	±1%	150mV	89%
RST-10000-36	36V, 0~276A	±1%	200mV	90%
RST-10000-48	48V, 0~210A	±1%	200mV	91%

75~320W 3~4 Output





Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Over temperature protection (200~320W built-in, option for 100W and 150W)
- Built-in active PFC function
- Cooling by free air convection (75W / 100W)
- Forced air cooling by built-in DC fan (150W / 200W / 320W)
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No. TP-75		TP-75	TP-100 QP-100	TP-150 QP-150	QP-200	QP-320		
AC input volta	ige range	90~264VAC; 127~370VDC						
AC inrush current (max.)		Cold start, 20A at 230VAC	Cold start, 40A at 230VAC		Cold start, 50A at 230VAC	Cold start, 45A at 230VAC		
DC adjustment range		CH1: -5%~+10% rated output voltage	CH1: -5%~+10% rated output voltage (CH1&2 for QP-100/150-3x, QP-100/150-D/F)		CH1&2: -5%-+10% rated output voltage			
	Range	105%~150%						
Overload protection					Constant current limiting, auto-recovery	Fold back current limiting, auto-recovery		
Over voltage p	orotection	CH1: 115%~135%	1: 115%~135%					
Withstand volt	tage	I/P - O/P: 3kVAC, I/P - FG: 2kVAC, O/P - FG:0.5kVAC, 1 minute						
Working tempe	erature	-10~+60°C (refer to output derating curve)				-10~+70°C		
Setup, rise, hold up time		800ms, 60ms, 36ms at full load and 230VAC	230VΔC(IP-100/150)·		800ms, 50ms, 24ms at full load and 230VAC	800ms, 50ms, 16ms at full load and 230VAC		
Safety standar	rds	UL60950-1, TUV EN60	950-1 approved					
EMC standards	S	EN55022 class B, EN6	1000-3-2,3, EN61000-4	-2,3,4,5,6,8,11				
Connection		8P/7.62mm pitch terminal block	9P/7.62mm pitch termi	nal block with cover	9P/9.5mm pitch termi	nal block with cover		
Dimension (Lx	(WxH)(mm)	179x 99x 33	199x 99x 50		215x 115x 50			
Case No.		920A	916A	916B	912B	9121		

■ 75W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
TP-75A	5V, 1.5~10A	±3%	100mV	70%	74W
	12V, 0.2~4.0A	±4%	120mV		
	-5V, 0.0~0.6A	±8%	100mV		
TP-75B	5V, 1.5~10A	±3%	100mV	70%	76W
	12V, 0.2~4.0A	±4%	120mV		
	-12V, 0.0~0.6A	±8%	120mV		
TP-75C	5V, 1.5~10A	±3%	100mV	70%	75W
	15V, 0.2~3.0A	±4%	120mV		
	-15V, 0.0~0.6A	±8%	120mV		
TP-75D	5V, 1.5~10A	±3%	100mV	70%	76W
	24V, 0.2~2.5A	±4%	120mV		
	12V, 0.0~0.6A	±8%	120mV		
TP-7503	5V, 1.5~10A	±3%	100mV	70%	75W
	3.3V, 0.2~8.0A	±4%	50mV		
	12V, 0.0~0.6A	±8%	120mV		

■ 100W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
TP-100A	5V, 3.0~15A	±3%	100mV	75%	101W
	12V, 0.4~5.0A	±7%	120mV		
	-5V, 0.0~1.0A	±6%	100mV		
TP-100B	5V, 3.0~15A	±3%	100mV	78%	105W
	12V, 0.4~5.0A	±6%	120mV		
	-12V, 0.0~1.0A	±6%	100mV		
TP-100C	5V, 3.0~15A	±3%	100mV	77%	104W
	15V, 0.4~4.0A	+10%,-6%	150mV		
	-15V, 0.0~1.0A	±6%	100mV		
TP-100D	5V, 3.0~15A	±3%	100mV	78%	105W
	24V, 0.4~3.0A	±8%	150mV		
	12V, 0.0~1.0A	±6%	100mV		



■ 150W —	Triple Output					Model No.	Output	Tol.	R&N	Effi.	Max.
		Tal	DoM	Ett:	Mari	QP-150F	5V, 3.0~15A	±3%	120mV	78%	152W
Model No.	Output	Tol.	R&N	Effi.	Max.		15V, 0.0~5.0A	±3%	150mV		
TP-150A	5V, 2.0~20A	±3%	100mV	75%	150W		24V, 0.4~3.0A	±6%	200mV		
	12V, 0.4~7.0A	±8%	120mV				-15V, 0.0~1.0A	±5%	150mV		
TD 450D	-5V, 0.0~1.0A	±6%	100mV	770/	4.40144		·				
TP-150B	5V, 2.0~20A	±3%	100mV	77%	148W	Model No.	Output	Tol.	R&N	Effi.	Max.
	12V, 0.4~7.0A	±8%	120mV			QP-150-3A	5V, 3.0~15A	±3%	100mV	73%	146W
TD 4500	-12V, 0.0~1.0A	±6%	100mV	==0/	45014		3.3V, 0.0~15A	±3%	100mV		
TP-150C	5V, 2.0~20A	±3%	100mV	77%	152W		12V, 0.4~5.0A	±6%	150mV		
	15V, 0.4~6.0A	+10%,-6%	150mV				-5V, 0.0~1.0A	±5%	150mV		
	-15V, 0.0~1.0A	±6%	100mV			QP-150-3B	5V, 3.0~15A	±3%	100mV	75%	150W
TP-150D	5V, 2.0~20A	±3%	100mV	78%	154W		3.3V, 0.0~15A	±3%	100mV		
	24V, 0.4~4.0A	±8%	150mV				12V, 0.4~5.0A	±6%	150mV		
	12V, 0.0~1.0A	±6%	100mV				-12V, 0.0~1.0A	±5%	150mV		
400111	0 10 1 1					QP-150-3C	5V, 3.0~15A	±3%	100mV	74%	152W
100W —	Quad Output						3.3V, 0.0~15A	±3%	100mV		
Model No.	Output	Tol.	R&N	Effi.	Max.		15V, 0.4~5.0A	+8%,-6%	150mV		
QP-100B	5V, 2.0~10A	±3%	100mV	76%	101W		-15V, 0.0~1.0A	±5%	150mV		
	12V, 0.3~4.0A	±6%	150mV			QP-150-3D	5V, 3.0~15A	±3%	100mV	76%	150W
	-12V, 0.15~1.0A	+10%,-6%	150mV				3.3V, 0.0~15A	±3%	100mV		
	-5V, 0.0~1.0A	±5%	100mV				24V, 0.3~3.0A	±6%	150mV		
QP-100C	5V, 2.0~10A	±3%	100mV	77%	101W		-12V, 0.0~1.0A	±5%	150mV		
	15V, 0.3~3.0A	+6%,-10%	150mV			000011	0 10 1 1				
	-15V, 0.15~1.0A	±8%	150mV			200W —	- Quad Output				
	-5V, 0.0~1.0A	±5%	100mV			Model No.	Output	Tol.	R&N	Effi.	Max.
QP-100D	5V, 2.0~10A	±3%	120mV	78%	100W	QP-200D	5V, 3.0~20A	±3%	100mV	75%	203W
	12V, 0.0~3.0A	±3%	150mV				12V, 0.0~7.0A	±3%	150mV		
	24V, 0.3~2.0A	±6%	200mV				24V, 0.4~6.0A	+10%,-6%	150mV		
	-12V, 0.0~1.0A	±5%	150mV				-12V, 0.0~1.0A	±6%	150mV		
QP-100F	5V, 2.0~10A	±3%	120mV	78%	103W	QP-200F	5V, 3.0~20A	±3%	100mV	75%	203W
Q. 100.	15V, 0.0~3.0A	±3%	180mV	, 0, 0			15V, 0.0~6.0A	±3%	150mV		
	24V, 0.3~2.0A	±6%	200mV				24V, 0.4~6.0A	+10%,-6%	150mV		
	-15V, 0.0~1.0A	±5%	150mV				-15V, 0.0~1.0A	±6%	150mV		
						QP-200-3A	5V, 3.0~20A	±3%	100mV	72%	200W
QP-100-3A	5V, 2.0~10A	±3%	100mV	74%	99W		3.3V, 0.0~20A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV				12V, 0.5~8.0A	+8%,-10%	150mV		
	12V, 0.3~3.0A	±6%	150mV				-5V, 0.0~1.0A	±6%	150mV		
	-5V, 0.0~1.0A	±5%	150mV			QP-200-3B	5V, 3.0~20A	±3%	100mV	72%	205W
QP-100-3B	5V, 2.0~10A	±3%	100mV	74%	100W		3.3V, 0.0~20A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV				12V, 0.5~8.0A	+8%,-10%	150mV		
	12V, 0.3~3.0A	±6%	150mV				-12V, 0.0~1.0A	±6%	150mV		
	-12V, 0.0~1.0A	±5%	150mV			QP-200-3C	5V, 3.0~20A	±3%	100mV	72%	210W
QP-100-3C	5V, 2.0~10A	±3%	100mV	75%	101W		3.3V, 0.0~20A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV				15V, 0.5~7.0A	+10%,-6%	150mV		
	15V, 0.3~2.0A	+8%,-6%	150mV				-15V, 0.0~1.0A	±6%	150mV		
	-15V, 0.0~1.0A	±5%	150mV			QP-200-3D	5V, 3.0~20A	±3%	100mV	74%	204W
QP-100-3D	5V, 2.0~10A	±3%	100mV	75%	105W		3.3V, 0.0~20A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV				24V, 0.4~6.0A	+10%,-6%	150mV		
	24V, 0.3~2.0A	±6%	150mV				-12V, 0.0~1.0A	±6%	150mV		
	-12V, 0.0~1.0A	±5%	150mV			QP-200-3E	5V, 3.0~20A	±3%	100mV	74%	206W
	0 10					1. 200 02	3.3V, 0.0~20A	±3%	100mV		
■ 150W —	Quad Output						24V, 0.4~6.0A	+10%,-6%	150mV		
Model No.	Output	Tol.	R&N	Effi.	Max.		-15V, 0.0~1.0A	±6%	150mV		
QP-150B	5V, 3.0~15A	±3%	100mV	76%	150W						
	12V, 0.4~5.0A	±6%	150mV			320W —	 Quad Output 				
	-12V, 0.3~2.0A	+10%,-6%	150mV			Model No.	Output	Tol.	R&N	Effi.	Max.
	-5V, 0.0~1.0A	±5%	100mV			QP-320D	5V, 2.5~20A	±3%	100mV	83%	316W
QP-150C	5V, 3.0~15A	±3%	100mV	77%	153W	2. 0200	12V, 0.0~10A	±3%	150mV	3370	2.3**
2. 1000	15V, 0.4~4.0A	+6%,-10%	150mV	7 7 70	. 50 **						
	-15V, 0.3~2.0A	±8%	150mV				24V, 0.2~5.0A	+10%,-6%	150mV		
	-5V, 0.0~1.0A	±6% ±5%	100mV				-12V, 0.2~2.0A	±10%	150mV		
QP-150D	5V, 3.0~15A	±3% ±3%	120mV	78%	150W	QP-320F	5V, 2.5~20A	±3%	100mV	83%	316W
Q1 - 130D	12V, 0.0~5.0A	±3% ±3%	150mV	7 0 70	13000		15V, 0.0~10A	±3%	150mV		
	24V, 0.4~3.0A	±3% ±6%	200mV				24V, 0.2~5.0A	+10%,-6%	150mV		
	-12V, 0.0~1.0A	±0% ±5%	150mV				-15V, 0.2~1.6A	±10%	150mV		
	-12 V, U.U~ I.UA	± 3 /0	TOUTIN				10 1, 0.2 1.07	± 10 /0	1001111		

75~200W High Reliability





Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- Protections:

Short circuit / Overload / Over voltage / Over temperature (optional for HRP-75 / HRP-100)

- · Built-in constant current limiting circuit
- Built-in remote sense function (HRP□-150 / 200)
- No load power consumption<0.5W (except for HRP-150/200)
- Built-in remote ON/OFF control (except for HRP-150 / 200)
- Built-in 5V / 0.3A standby output (HRPG-150 / 200)
- Cooling by free air convection
- 1U low profile
- LED indicator for power on
- 100% full load burn-in test
- 5 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		HRP-75	HRP-100	HRP□-150	HRP□-200		
AC input vo	Itage range	85~264VAC; 120~370VDC					
AC inrush c	urrent (max.)	Cold start, 65A at 230VAC		Cold start; 70A at 230	DVAC		
DC adjustme	ent range	-5%~+10% rated output voltage		±15% rated output vo	Itage		
Overload	Range	105%~135%					
protection	Туре	Constant current limiting, auto-recovery					
Over voltage	e protection	115%~145%					
Withstand v	oltage	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute					
Working tem	perature	-40~+70°C (refer to output derating curve) -40~+60°C -40~+70°C					
Safety stand	lards	UL60950-1, TUV EN60950-1 approved					
EMC standa	rds	EN55022 class B, EN61000-4-2,3,4,5,6,8,11	, EN61000-3-2,3, EN6	1000-6-2 heavy indust	ry level		
Connection		5P/9.5mm pitch terminal block with cover	7P/9.5mm pitch term	inal block with cover			
Dimension (LxWxH)(mm)	129x98x38	159x97x38		199x 98x 38		
Case No.		903D	9011		902E		

75W				HRP-75
Model No.	Output	Tol.	R&N	Effi.
HRP-75-3.3	3.3V, 0~15A	±2.5%	80mV	77.0%
HRP-75-5	5V, 0~15A	±2.5%	80mV	82.5%
HRP-75-7.5	7.5V, 0~10A	±2.5%	100mV	84.0%
HRP-75-12	12V, 0~6.3A	±1.5%	120mV	87.0%
HRP-75-15	15V, 0~5A	±1.5%	150mV	88.0%
HRP-75-24	24V, 0~3.2A	±1.5%	150mV	88.5%
HRP-75-36	36V, 0~2.1A	±1.5%	200mV	89.0%
HRP-75-48	48V, 0~1.6A	±1.5%	240mV	89.0%

)	150W			HR	P□-150
	Model No.	Output	Tol.	R&N	Effi.
	HRP□-150-3.3	3.3V, 0~30A	$\pm 2.5\%$	80mV	78.5%
	HRP□-150-5	5V, 0~26A	$\pm 2.5\%$	80mV	85.0%
	HRP□-150-7.5	7.5V, 0~20A	±2.5%	100mV	87.0%
	HRP□-150-12	12V, 0~13A	±1.5%	120mV	88.0%
	HRP□-150-15	15V, 0~10A	±1.5%	150mV	88.0%
	HRP□-150-24	24V, 0~6.5A	±1.5%	150mV	88.0%
	HRP□-150-36	36V, 0~4.3A	±1.5%	200mV	89.0%
	HRP□-150-48	48V, 0~3.3A	±1.5%	240mV	89.0%
	\square = blank, G; blank:	basic function,	G: with 5Vsb	& no load <	<0.5W

100W				HRP-100
Model No.	Output	Tol.	R&N	Effi.
HRP-100-3.3	3.3V, 0~20A	+2.5%, -3.5%	80mV	78.0%
HRP-100-5	5V, 0~17A	±2.5%	80mV	83.0%
HRP-100-7.5	7.5V, 0~13.5A	±2.5%	100mV	84.0%
HRP-100-12	12V, 0~8.5A	±1.5%	120mV	87.5%
HRP-100-15	15V, 0~7A	±1.5%	150mV	88.0%
HRP-100-24	24V, 0~4.5A	±1.5%	150mV	88.5%
HRP-100-36	36V, 0~2.9A	±1.5%	200mV	89.0%
HRP-100-48	48V, 0~2.2A	±1.5%	240mV	90.0%

200W			HRI	P□-200
Model No.	Output	Tol.	R&N	Effi.
HRP□-200-3.3	3.3V, 0~40A	±2%	80mV	80.0%
HRP□-200-5	5V, 0~35A	±2%	90mV	84.0%
HRP□-200-7.5	7.5V, 0~26.7A	±2%	100mV	86.0%
HRP□-200-12	12V, 0~16.7A	±1%	120mV	88.0%
HRP□-200-15	15V, 0~13.4A	±1%	150mV	88.0%
HRP□-200-24	24V, 0~8.4A	±1%	150mV	88.0%
HRP□-200-36	36V, 0~5.7A	±1%	250mV	89.0%
HRP□-200-48	48V, 0~4.3A	±1%	250mV	89.0%
□=blank, G; blar	nk: basic function, (: with 5Vs	b & no load <	0.5W

300~600W High Reliability





Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Built-in constant current limiting circuit
- Built-in remote sense function
- Built-in DC OK signal
- No load power consumption<0.5W (HRPG-300 / 450)
- No load power consumption<0.75W (HRPG-600)
- Built-in remote ON/OFF control & 5V / 0.3A standby output (HRPG series)
- Built-in current sharing (HRPG-600-24 / 36 / 48)
- Forced air cooling by built-in DC fan
- 1U low profile (HRP□-300 / 450)
- 100% full load burn-in test
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		HRP□-300	HRP□-450	HRP□-600			
AC input vo	Itage range	85~264VAC; 120~370VDC					
AC inrush c	urrent (max.)	Cold start, 70A at 230VAC					
DC adjustm	ent range	±15% rated output voltage					
Overload	Range	105%~135%					
Protection	Туре	Constant current limiting, auto-recovery					
Over voltag	e protection	115%~145%					
Withstand v	oltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute					
Working ten	nperature	-40~+70°C (refer to output derating curve)					
Safety stand	dards	UL60950-1, TUV EN60950-1 approved					
EMC standa	rds	EN55022 class B, EN61000-4-2,3,4,5,6,8,7	11, EN61000-3-2,3, EN61000-6-2 heavy	industry level			
Connection		7P/11mm pitch terminal block with cover	3+6P/10&11mm pitch terminal block w	rith cover			
Dimension (LxWxH)(mm)	199x105x41	218x105x41	218x105x63.5			
Case No.		980A	995A	977A			

300W			HRI	2□-300
Model No.	Output	Tol.	R&N	Effi.
HRP□-300-3.3	3.3V, 0~60A	$\pm2.5\%$	80mV	80.0%
HRP□-300-5	5V, 0~60A	$\pm2.0\%$	90mV	82.0%
HRP□-300-7.5	7.5V, 0~40A	$\pm2.0\%$	100mV	86.0%
HRP□-300-12	12V, 0~27A	±1.0%	120mV	88.0%
HRP□-300-15	15V, 0~22A	±1.0%	150mV	88.0%
HRP□-300-24	24V, 0~14A	±1.0%	150mV	87.0%
HRP□-300-36	36V, 0~9A	$\pm 1.0\%$	250mV	88.0%
HRP□-300-48	48V, 0~7A	$\pm 1.0\%$	250mV	89.0%
□=blank, G; blan	k: basic function,	G: with 5Vsb	& no load <	0.5W

■ 450W			HRF	2□-450
Model No.	Output	Tol.	R&N	Effi.
HRP□-450-3.3	3.3V, 0~90A	±2%	80mV	80.0%
HRP□-450-5	5V, 0~90A	±2%	80mV	83.0%
HRP□-450-7.5	7.5V, 0~60A	±2%	100mV	86.5%
HRP□-450-12	12V, 0~37.5A	±1%	120mV	88.0%
HRP□-450-15	15V, 0~30A	±1%	150mV	89.0%
HRP□-450-24	24V, 0~18.8A	±1%	150mV	88.0%
HRP□-450-36	36V, 0~12.5A	±1%	240mV	89.0%
HRP□-450-48	48V, 0~9.5A	±1%	240mV	89.5%
□=blank, G; blank	: basic function, G:	with 5Vsb	& no load <	0.5W

600W			HRF	2□-600
Model No.	Output	Tol.	R&N	Effi.
HRP□-600-3.3	3.3V, 0~120A	±2%	100mV	78.5%
HRP□-600-5	5V, 0~120A	±2%	100mV	82.0%
HRP□-600-7.5	7.5V, 0~80A	±2%	100mV	87.0%
HRP□-600-12	12V, 0~53A	±1%	120mV	88.0%
HRP□-600-15	15V, 0~43A	±1%	150mV	88.0%
HRP□-600-24	24V, 0~27A	±1%	150mV	88.0%
HRP□-600-36	36V, 0~17.5A	±1%	200mV	89.0%
HRP□-600-48	48V, 0~13A	±1%	240mV	89.0%
□=blank, G: bla	nk: basic function, G:	with 5Vsb	& no load <	0.75W



We are a TQM (Total Quality Management) company and ISO-9001 certified since 1994.



Who can provide you better services and be a trustworthy partner in the power industry?

- "MEAN WELL" tries to be -



Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.

100~600W High Reliability Medical Type





Features

- Universal AC input / Full range
- Medical safety approved (MOOP level)
- Low leakage current ≤300µA (≤450µA for MSP-300)
- Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 1U low profile (MSP-100/200/300/450)
- · Built-in constant current limiting circuit
- Built-in remote sense function (MSP-200/300/450/600)
- No load power consumption <0.5W (<0.6W for MSP-450; <0.8W for MSP-600)
- Built-in current sharing (MSP-600-24/36/48)
- Built-in remote ON/OFF control
- Built-in 5V/0.3A standby output (MSP-200/300/450/600)
- Built-in DC OK signal (MSP-300/450/600)
- LED indicator for power on
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		MSP-100	MSP-200	MSP-300	MSP-450	MSP-600	
AC input vo	Itage range	85~264VAC; 120~370VDC					
AC inrush c	urrent (max.)	Cold start, 65A at 230VAC	Cold start, 70A	at 230VAC		Cold start, 80A at 230VAC	
DC adjustm	ent range	±15% rated output voltage					
Overload	Range	105%~135%					
protection	Туре	Constant current limiting, au	to-recovery				
Over voltag	e protection	115%~145%					
Withstand v	oltage	I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, 1 minute					
Working ter	nperature	-40~+60°C	-40~+60°C -40~+70°C (refer to output derating curve)				
Safety stan	dards	ANSI/AAMI ES60601-1, IEC60601-1 approved					
EMC standa	ırds	EN55011 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2					
Connection Dimension (LxWxH)(mm)		7P / 9.5mm pitch terminal blo	ock with cover	7P / 11mm pitch terminal block with cover	3+6P / 10 &11mm p terminal block with		
		159x 97x 38	199x 98x 38	199x 105x 41	218x 105x 41	218x 105x 63.5	
Case No.		9011	902E	980A	995A	977A	

100W			N	ISP-100
Model No.	Output	Tol.	R&N	Effi.
MSP-100-3.3	3.3V, 0~20A	+2.5%, -3.5%	80mV	78.0%
MSP-100-5	5V, 0~17A	+2.5%, -3.5%	80mV	83.0%
MSP-100-7.5	7.5V, 0~13.5A	±2.5%	100mV	84.0%
MSP-100-12	12V, 0~8.5A	±1.5%	120mV	87.5%
MSP-100-15	15V, 0~7A	±1.5%	150mV	88.0%
MSP-100-24	24V, 0~4.5A	±1.5%	150mV	88.5%
MSP-100-36	36V, 0~2.9A	±1.5%	200mV	89.0%
MSP-100-48	48V, 0~2.2A	±1.5%	240mV	90.0%
MSP-100-24 MSP-100-36	24V, 0~4.5A 36V, 0~2.9A	±1.5% ±1.5%	150mV 200mV	88.5% 89.0%

W31 - 100-40	40 V, 0 -2.2A	± 1.570	2401111	70.070
200W			N	ISP-200
Model No.	Output	Tol.	R&N	Effi.
MSP-200-3.3	3.3V, 0~40A	±2%	80mV	80.0%
MSP-200-5	5V, 0~35A	±2%	90mV	84.0%
MSP-200-7.5	7.5V, 0~26.7A	±2%	100mV	86.0%
MSP-200-12	12V, 0~16.7A	±1%	120mV	88.0%
MSP-200-15	15V, 0~13.4A	±1%	150mV	88.0%
MSP-200-24	24V, 0~8.4A	±1%	150mV	88.0%
MSP-200-36	36V, 0~5.7A	±1%	250mV	89.0%
MSP-200-48	48V, 0~4.3A	±1%	250mV	89.0%
20011				ICD 200
	Model No. MSP-200-3.3 MSP-200-5 MSP-200-7.5 MSP-200-12 MSP-200-15 MSP-200-24 MSP-200-36 MSP-200-48	Model No. Output MSP-200-3.3 3.3V, 0-40A MSP-200-5 5V, 0-35A MSP-200-7.5 7.5V, 0-26.7A MSP-200-12 12V, 0-16.7A MSP-200-15 15V, 0-13.4A MSP-200-24 24V, 0-8.4A MSP-200-36 36V, 0-5.7A MSP-200-48 48V, 0-4.3A	Model No. Output Tol. MSP-200-3.3 3.3V, 0-40A ±2% MSP-200-5 5V, 0-35A ±2% MSP-200-7.5 7.5V, 0-26.7A ±2% MSP-200-12 12V, 0-16.7A ±1% MSP-200-15 15V, 0-13.4A ±1% MSP-200-24 24V, 0-8.4A ±1% MSP-200-36 36V, 0-5.7A ±1% MSP-200-48 48V, 0-4.3A ±1%	Model No. Output Tol. R&N MSP-200-3.3 3.3V, 0-40A ±2% 80mV MSP-200-5 5V, 0-35A ±2% 90mV MSP-200-7.5 7.5V, 0-26.7A ±2% 100mV MSP-200-12 12V, 0-16.7A ±1% 120mV MSP-200-15 15V, 0-13.4A ±1% 150mV MSP-200-24 24V, 0-8.4A ±1% 150mV MSP-200-36 36V, 0-5.7A ±1% 250mV MSP-200-48 48V, 0-4.3A ±1% 250mV

300W			IV	15P-300
Model No.	Output	Tol.	R&N	Effi.
MSP-300-3.3	3.3V, 0~60A	±2.5%	80mV	80.0%
MSP-300-5	5V, 0~60A	±2%	90mV	82.0%
MSP-300-7.5	7.5V, 0~40A	±2%	100mV	86.0%
MSP-300-12	12V, 0~27A	±1%	120mV	88.0%

Model	No.	Output	Tol.	R&N	Effi.
MSP-300	0-15	15V, 0~22A	±1%	150mV	88.0%
MSP-300	0-24	24V, 0~14A	±1%	150mV	87.0%
MSP-300	0-36	36V, 0~9A	±1%	250mV	88.0%
MSP-300	0-48	48V, 0~7A	±1%	250mV	89.0%

450W				MSP-450
Model No.	Output	Tol.	R&N	Effi.
MSP-450-3.3	3.3V, 0~90A	±2%	80mV	80.0%
MSP-450-5	5V, 0~90A	±2%	80mV	83.0%
MSP-450-7.5	7.5V, 0~60A	±2%	100mV	86.5%
MSP-450-12	12V, 0~37.5A	±1%	120mV	88.0%
MSP-450-15	15V, 0~30A	±1%	150mV	89.0%
MSP-450-24	24V, 0~18.8A	±1%	150mV	88.0%
MSP-450-36	36V, 0~12.5A	±1%	240mV	89.0%
MSP-450-48	48V, 0~9.5A	±1%	240mV	89.5%

600W				MSP-600
Model No.	Output	Tol.	R&N	Effi.
MSP-600-3.3	3.3V, 0~120A	±2%	100mV	78.5%
MSP-600-5	5V, 0~120A	±2%	100mV	82.0%
MSP-600-7.5	7.5V, 0~80A	±2%	100mV	86.0%
MSP-600-12	12V, 0~53A	±1%	120mV	88.0%
MSP-600-15	15V, 0~43A	±1%	150mV	88.0%
MSP-600-24	24V, 0~27A	±1%	150mV	88.0%
MSP-600-36	36V, 0~17.5A	±1%	200mV	89.0%
MSP-600-48	48V, 0~13A	±1%	240mV	89.0%

U-bracket-PFC

150~500W Single Output





Features

- Universal AC input / Full range
- Built-in active PFC
- Protections: Short circuit / Overload /Over voltage / Over temperature
- Output wattage:

USP-150: 150W convection

USP-225: 150W convection, 225W with 18CFM forced air USP-350: 300W convection, 350W with 23.5CFM forced air USP-500: 400W convection, 500W with 23.5CFM forced air

- High power density: 5.5W/in³ (USP-150);
 4.7W/in³ (USP-225); 6.32W/in³ (USP-350);
 6.2W/in³ (USP-500)
- U-bracket low profile: 33mm(USP-150); 38mm(USP-225/300); 41mm(USP-500)
- Built-in remote ON/OFF control, remote sense, DC OK signal (USP-500)
- Optional current sharing(1+1) for USP-500-24/48
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		USP-150	USP-225	USP-350	USP-500		
AC input voltage range		90~295VAC; 127~417VDC	90~264VAC; 127~370	90~264VAC; 127~370VDC			
AC inrush current (max.)		Cold start, 65A at 230VAC	15A at 115VAC, 35A at 230VAC	22A at 115VAC, 44A at 230VAC	30A at 115VAC, 50A at 230VAC		
DC adjustmen	it range	±10% rated output voltage					
Range		110%~160%	105%~150%	105%~130%			
Overload protection	Туре	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery		Constant current, shut off after 3 sec.		
Over voltage	Range	110%~135%	110%~135%	110%~140%	115%~135%		
protection	Type	Shut off, AC recycle to re-start		Hiccup mode, auto-recovery	Shut off, AC recycle to re-start		
Withstand vol	tage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute					
Working temp	erature	-30~+65°C	-20~+65°C	-10~+65°C	-20~+70°C		
Vibration		10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
Safety standa	rds	UL60950-1, TUV EN60950-1(except for USP-150) approved					
EMC standards Connection Dimension (LxWxH)(mm)		EN55022 class B, EN61000-3-2,	3, EN61000-4-2,3,4,5,	6,8,11			
		JST: SVH-21T-P1.1, 4P/7.62mm pitch terminal block	20P/2.54mm pitch, Molex 39-29-9206	5+9Px2/3.96mm pitch, JST: B5P/B9Px2-VH	3+8P/8.5mm pitch terminal block with cover		
		215x 67.4x 33	202x 101.5x 38	235.2x 101.5x 38	254x 127x 41		

USP-150 Seri	es	F	C FL US (CB(E
Model No.	Output	Tol.	R&N	Effi.
USP-150-12	12V, 0~12.5A	±2%	100mV	91.5%
USP-150-15	15V, 0~10.0A	±2%	150mV	91.5%
USP-150-24	24V, 0~6.30A	±2%	150mV	93.0%
USP-150-36	36V, 0~4.20A	±2%	250mV	93.0%
USP-150-48	48V, 0~3.20A	±2%	250mV	93.0%

USP-350 Ser	CB(E			
Model No.	Output	Tol.	R&N	Effi.
USP-350-3.3	3.3V, 0~70.0A	±2%	80mV	78%
USP-350-5	5V, 0~70.0A	±2%	80mV	84%
USP-350-12	12V, 0~29.2A	±2%	100mV	88%
USP-350-15	15V, 0~23.4A	±2%	100mV	88%
USP-350-24	24V, 0~14.6A	±2%	150mV	88%
USP-350-48	48V, 0~7.30A	±2%	150mV	89%

USP-225 Seri	es	P.A	US DIFFERENCE CONTINUES CO	CB (€
Model No.	Output	Tol.	R&N	Effi.
USP-225-3.3	3.3V, 0~40.0A	±2%	100mV	72%
USP-225-5	5V, 0~40.0A	±2%	100mV	77%
USP-225-12	12V, 0~18.7A	±2%	100mV	83%
USP-225-15	15V, 0~15.0A	±2%	100mV	84%
USP-225-24	24V, 0~9.40A	±2%	150mV	85%
USP-225-48	48V, 0~4.70A	±2%	250mV	86%

USP-500 Ser	P: Nus E CBCE			
Model No.	Output	Tol.	R&N	Effi.
USP-500-5	5V, 0~80.0A	±2%	80mV	85%
USP-500-12	12V, 0~42.0A	±2%	100mV	90%
USP-500-15	15V, 0~33.5A	±2%	100mV	90%
USP-500-24	24V, 0~21.0A	±2%	150mV	89%
USP-500-48	48V, 0~10.5A	±2%	150mV	90%

10~96W Miniature Single Output





Features

- Universal AC input / Full range
- Installed on DIN rail TS-35 / 7.5 or 15
- Protections: Short circuit / Overload / Over voltage
- No load power consumption < 0.75W (<1W for MDR-100)
- LED indicator for power on
- Built-in active PFC and over temp. protection (MDR-100)
- Class I, Div 2 Hazardous Locations T4(MDR-40/60)
- DC OK signal output (MDR-10/20)
- DC OK relay contact (MDR-40/60/100)
- Cooling by free air convection
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	MDR-10	MDR-20	MDR-40	MDR-60	MDR-100		
AC input voltage range	nge 85~264VAC; 120~370VDC						
A O	Cold start, 35A at 115VAC,	Cold start, 20A at 115VAC,	Cold start, 30A	at 115VAC,			
AC inrush current	70A at 230VAC	40A at 230VAC	60A at 230VAC	60A at 230VAC			
DC adjustment range	Fixed	±10% rated output voltage	0~+20% rated o	utput voltage			
Overload protection	>105% hiccup mode, auto-recovery	105%~160% constant current limiting, auto-recovery	105%~150% constant current limiting, auto-recovery				
Over voltage protection	115%~135% rated output v	5%~135% rated output voltage 125%~150% rated output voltage			9		
Setup, rise, hold up time	500ms, 30ms, 120ms	500ms, 30ms, 50ms			3000ms, 50ms, 50ms		
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2k\	/AC, 1minute					
Working temperature	-20~+70°C (refer to output	derating curve)			-10~+60°C		
DC OK signal	Open collector	Open collector	Relay contact				
Safety standards	UL508, TUV EN60950-1 ap Div. 2 Group A, B, C, D Ha	pproved; MDR-40/60 also approv zardous Locations T4	ved for UL60950-	1, ANSI/ISA 12.1	2.01-2013 Class I,		
EMC standards	EN55022 class B, EN61000-3	-2,3, EN61000-4-2,3,4,5,6,8,11, EN	l61204-3, EN61000	-6-2 heavy industry	y level (MDR-40/60/100)		
Connection	I/P: 3 poles, O/P: 3 poles	screw DIN terminal	IP: 3 poles, O/P	: 6 poles screw l	DIN terminal		
Dimension (WxHxD)(mm)	22.5x90x100		40x90x100		55x90x100		
Packing	72pcs / 13.2kg	72pcs / 14.7kg	42pcs / 13.6kg	42pcs / 14.8kg	30pcs / 13.6kg		

MDR-10 Seri	es	Ø	UL us A	CB(
Model No.	Output	Tol.	R&N	Effi.
MDR-10-5	5V, 0~2.0A	±5%	80mV	77%
MDR-10-12	12V, 0~0.84A	±3%	120mV	81%
MDR-10-15	15V, 0~0.67A	±3%	120mV	81%
MDR-10-24	24V, 0~0.42A	±2%	150mV	84%

MDR-20 Seri	es	Ø ,		CB (€
Model No.	Output	Tol.	R&N	Effi.
MDR-20-5	5V, 0~3.0A	±2%	80mV	76%
MDR-20-12	12V, 0~1.67A	±1%	120mV	80%
MDR-20-15	15V, 0~1.34A	±1%	120mV	81%
MDR-20-24	24V, 0~1.00A	±1%	150mV	84%

MDR-40 Seri	es	Ø c ™ us		CB (€
Model No.	Output	Tol.	R&N	Effi.
MDR-40-5	5V, 0~6.00A	±2%	80mV	78%
MDR-40-12	12V, 0~3.33A	±1%	120mV	86%
MDR-40-24	24V, 0~1.70A	±1%	150mV	88%
MDR-40-48	48V, 0~0.83A	±1%	200mV	88%

Ø c**91** us · **№.** △ CB(€ MDR-60 Series Model No. Effi. Output Tol. R&N 5V, 0~10.0A MDR-60-5 ±2% 80mV 78% MDR-60-12 ±1% 120mV 12V, 0~5.00A 86% 88% MDR-60-24 ±1% 150mV 24V, 0~2.50A MDR-60-48 48V, 0~1.25A ±1% 200mV 87%

MDR-100 Seri	(E			
Model No.	Output	Tol.	R&N	Effi.
MDR-100-12	12V, 0~7.5A	±1%	120mV	83%
MDR-100-24	24V, 0~4.0A	±1%	150mV	86%
MDR-100-48	48V, 0~2.0A	±1%	200mV	87%



Energy Saving —

We care about energy saving. This logo represents that this model has "low no load power consumption"!



- To satisfy our customers is our goal
 - High Quality
 Low Cost
 - Prompt Delivery
 Best Service

AC inrush current (max.)

Withstand voltage

15~100W Class II Single Output



DR-60



Features

- Isolation Class II
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Over temperature protection (DR-100)
- No load power consumption<1W (DR-100)
- No load power consumption<0.5W (DR-15)
- Installed on DIN rail TS-35 / 7.5 or 15
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

36A at 230VAC

· Suitable for building automation and control of household appliance

45A at 230VAC

General Specification (Please refer to www.meanwell.com for detail spec.)

65A at 230VAC

I/P-O/P: 3kVAC



12V: 12~15V, 15V: 15~18V, DC adjustment range ±10% rated output voltage 24V: 24~29V 105%~135% Range 105%~160% Overload

30A at 230VAC

constant current limiting, auto-recovery protection Type Range 115%~135% rated output voltage 125%~155% rated output voltage Over voltage protection Type Shut off, clamp by zener diode Shut down, re-power on to recover

Working temperature -20~+60°C (refer to output load derating curve) Vibration 10~500Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes

Safety standards UL60950-1, TUV60950-1 approved EN55022 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, EN61204-3 **EMC** standards

I/P and O/P: I/P: 2 poles, Connection O/P: 4 poles screw DIN terminal 2 poles screw DIN terminal

Dimension (WxHxD)(mm) 25x93x56 78x93x56 78x93x56 100x93x56 918B 918B 970A Case No. 985A 140pcs / 15.0kg 48pcs / 15.4kg 36pcs / 13.6kg **Packing** 48pcs / 14.0kg

15W				DR-15
Model No	Outnut	Tol	D g.NI	Effi

Model No.	Output	Tol.	R&N	Effi.	
DR-15-5	5V, 0~2.40A	±2%	80mV	77.0%	
DR-15-12	12V, 0~1.25A	±1%	120mV	84.0%	
DR-15-15	15V, 0~1.00A	±1%	120mV	83.5%	
DR-15-2/	24V 0~0 63A	+1%	150m\/	85.0%	

Model No.	Output	Tol.	R&N	Effi.	
DR-60-5	5V, 0~6.5A	±2%	80mV	76%	
DR-60-12	12V, 0~4.5A	±1%	120mV	82%	
DR-60-15	15V, 0~4.0A	±1%	120mV	83%	
DR-60-24	24V, 0~2.5A	±1%	150mV	84%	

30W **DR-30**

Model No.	Output	Tol.	R&N	Effi.
DR-30-5	5V, 0~3.0A	±2%	80mV	74%
DR-30-12	12V, 0~2.0A	±1%	120mV	81%
DR-30-15	15V, 0~2.0A	±1%	120mV	82%
DR-30-24	24V, 0~1.5A	±1%	150mV	83%

100W **DR-100**

Model No.	Output	Tol.	R&N	Effi.
DR-100-12	12V, 0~7.5A	±2%	120mV	87%
DR-100-15	15V, 0~6.5A	±1%	120mV	87%
DR-100-24	24V, 0~4.2A	±1%	150mV	89%



We provide specification, drawing, test report and more information, please visit our website

http://www.meanwell.com



60W

Energy Saving -

We care about energy saving. This logo represents that this model has "low no load power consumption"!

45~480W Single Output





Features

- Universal AC input / Full range (DR-45/75, DRP-240)
 AC input selectable by switch (DR-120, DRP-480S)
 AC input 180~264VAC only (DRP-480)
- Built-in active PFC function (DRP-240)
- Built-in passive PFC function compliance to EN61000-3-2 (480W models)
- Protections: Short circuit / Overload /
 Over voltage / Over temperature
- · Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- 100% full load burn-in test
- · LED indicator for power on
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		DR-45	DR-75	DR-120	DRP-240	DRP-480	DRP-480S
AC input voltage	range	85~264VAC(DR-45	5/75, DRP-240); 90~13	32/180~264VAC selecta	able by switch (DR-120,	DRP-480S); 180~264\	/AC only (DRP-480)
AC inrush currer	nt (230VAC)	56A	40A	40A	45A	40A	45A
DC adjustment ra	ange	±10%	12V: 12~14V, 24V	: 24~28V, 48V: 48~5	3 V		
Overload protect	ion	105%~150% con	stant current limitir	ng, auto-recovery			
Over voltage	Range	115%~142% rate	ed output voltage		30~36V for 24V mo	del, 54~60V for 48V	' model
protection	Туре	Shut off, AC recycle to re-start					
Over temp. prote	ction	Shut down output voltage, recovers automatically after temperature goes down (DRP-240, re-power on to recover)					
Withstand voltag	je	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute					
Working tempera	iture	-10~+50°C	-10~+60°C		-10~+70°C	-20~+70°C	
Safety standards	3	UL508, TUV EN60950-1 approved (UL60950-1 also for DR-120, DRP-240, DRP-480, DRP-480S)					
EMC standards		EN55022 class E	3, EN61000-3-2,3, E	EN61000-4-2,3,4,5,6	,8,11, EN61000-6-2 h	neavy industry level	
Connection		I/P: 3 poles, O/F	P: 4 poles screw DIN	N terminal			
Dimension (WxHxD)(mm)		78x93x67	55.5x125.2x100	65.5x125.2x100	125.5x125.2x100	227x125.2x100	
Case No.	se No. 918A 923 921A 922A 930						
Packing 48pcs / 17.5kg 20pcs / 13.0kg 20pcs / 16.5kg 12pcs / 15.5kg 6pcs /		6pcs / 15.0kg	6pcs / 16.6kg				

DR-45 Series			c U us	CB(E
Model No.	Output	Tol.	R&N	Effi.
DR-4505	5V, 0~5.0A	±2%	100mV	72%
DR-4512	12V, 0~3.5A	±1%	200mV	77%
DR-4515	15V, 0~2.8A	±1%	240mV	77%
DR-4524	24V, 0~2.0A	±1%	480mV	80%

■ DR-75 Series			CULUS STATES	CB (€
Model No.	Output	Tol.	R&N	Effi.
DR-75-12	12V, 0~6.3A	±2%	100mV	76%
DR-75-24	24V, 0~3.2A	±1%	150mV	80%
DR-75-48	48V, 0~1.6A	±1%	240mV	81%

DR-120 Seri	es	c AL us o	UL US SEINE	CB (€
Model No.	Output	Tol.	R&N	Effi.
DR-120-12	12V, 0~10A	±2%	80mV	80%
DR-120-24	24V, 0~5.0A	±1%	80mV	84%
DR-120-48	48V, 0~2.5A	±1%	100mV	85%

■ DRP-240 Series	Pc Nus c Unus	CB C	ϵ

Model No.	Output	Tol.	R&N	Effi.
DRP-240-24	24V, 0~10A	±1%	80mV	84%
DRP-240-48	48V, 0~5.0A	±1%	150mV	85%

DRP-480 Ser	ies	Pc A us c	L us	CB(E
Model No.	Output	Tol.	R&N	Effi.

Model No.	Output	Tol.	R&N	Effi.	
DRP-480-24	24V, 0~20A	±1%	120mV	89%	
DRP-480-48	48V, 0~10A	±1%	120mV	89%	

DRP-480S Series		(P) c 911 us c	UL) us Serrator	CBCE	
	Model No.	Output	Tol.	R&N	Effi.
	DRP-480S-24	24V, 0~20A	±1%	120mV	89%
	DRP-480S-48	48V, 0~10A	±1%	120mV	89%



Customer Satisfaction —

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.

120~960W High Input Voltage





Features

- Input 340~550VAC, 3-phase (two phase for DRH-120)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed (240~960W)
- EN61000-6-2 industrial immunity level
- Optional parallel function (1+1) (960W only)
- 100% full load burn-in test
- · LED indicator for power on
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

	<u>- </u>		-				
Model No.		DRH-120	DRT-240	DRT-480	DRT-960		
AC input volta	ge range	340~550VAC, two phase	340~550VAC, 3-phase (two	o phase operation possible)			
AC inrush cur	rent (max.)	Cold start, 50A at 400VAC					
DC adjustmen	t range	24V: 24~28V, 48V: 48~55V					
	Range	105%~160%	105%~150%		105%~125%		
Overload protection	Туре	Constant current limiting, a	Constant current limiting, delay shut off after 3 sec.				
Over voltage	Range	24V: 30~36V, 48V: 59~66V					
protection	Туре	Shut off, AC recycle to re-start					
Over temperat	ure protection	Shut down output voltage, recovers automatically after temperature goes down					
Withstand vol	age	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute					
Working temp	erature	-20~+60°C	-20~+70°C	-20~+60°C			
Safety standa	ds	UL60950-1 approved	UL508, UL60950-1, TUV EN60950-1 approved				
EMC standard	S	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level					
Connection (s	crew DIN terminal)	I/P: 3 poles, O/P: 4 poles	I/P: 4 poles, O/P: 4 poles		I/P: 4 poles, O/P: 6 poles		
Dimension (WxHxD)(mm)		65.5x125.2x100	125.5x125.2x100	227x125.2x100	276x125.2x100		
Case No.		921A	922A	930A	934		
Packing		20pcs / 16.0kg	12pcs / 16.6kg	6pcs / 16.0kg	4pcs / 14.2kg		

CBCE ■ DRH-120 (Two Phase)

Model No.	Output	Tol.	R&N	Effi.
DRH-120-24	24V, 0~5.0A	±1%	80mV	85%
DRH-120-48	48V, 0~2.5A	±1%	80mV	86%

■ DRT-240 (Th	ree Phase)	c AL °us ¢(Us Antique of the state of the	CB(€
Model No.	Output	Tol.	R&N	Effi.

		_		
Model No.	Output	Tol.	R&N	Effi.
DRT-240-24	24V, 0~10A	±1%	80mV	89%
DRT-240-48	48V, 0~5.0A	±1%	80mV	89%

■ DRT-480 (Th	ree Phase)	c 91 ° us c(Us A STATE	CB(€

-	•				
Model No.	Output	Tol.	R&N	Effi.	
DRT-480-24	24V, 0~20A	±1%	80mV	89%	
DRT-480-48	48V, 0~10A	±1%	80mV	90%	

DRT-960 (Three Phase) Parallel & This & CB CE

Model No.	Output	Tol.	R&N	Effi.
DRT-960-24	24V, 0~40A	±1%	80mV	91%
DRT-960-48	48V, 0~20A	±1%	80mV	92%



Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.



We provide specification, drawing, test report and more information, please visit our website -

http://www.meanwell.com



We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.

75~150W Slim and Economical





Features

- Universal AC input / Full range
- Protections: Short circuit / Overload /
 Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- Low cost
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		EDR-75	EDR-120	EDR-150			
AC input volta	ige range	90~264VAC; 127~370VDC					
AC inrush cur	rent (max.)	Cold start, 35A at 230VAC					
DC adjustmen	t range	12V: 12~14V, 24V: 24~28V, 48V: 4	18~55V				
Overload	Range	105%~130%					
protection	Туре	Constant current limiting, auto-recovery					
Over voltage	Range	12V: 14~17V, 24V: 29~33V, 48V: 5	12V: 14~17V, 24V: 29~33V, 48V: 56~65V 24V: 29~33V				
protection	Туре	Shut down o/p voltage, re-power on to recover					
Over temperat	ure protection	Shut down o/p voltage, re-power on to recover					
Withstand vol	tage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC					
Working temp	erature	-20~+60°C (refer to output derating curve)					
Safety standaı	rds	UL508, TUV EN60950-1 approved					
EMC standard	S	EN55022 classA, EN61000-3-2(125W for EDR-150),3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2)					
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles					
Dimension (WxHxD)(mm)		32x 125.2x 102	40x 125.2x 113.5				
Case No.		221B	992D				
Packing		28pcs / 15.3kg	20pcs / 13kg				

75W				EDR-75
Model No.	Output	Tol.	R&N	Effi.

Model No.	Output	Tol.	R&N	Effi.
EDR-75-12	12V, 0~6.3A	±2.0%	100mV	85.5%
EDR-75-24	24V, 0~3.2A	±1.0%	120mV	87.5%
EDR-75-48	48V, 0~1.6A	±1.0%	150mV	88.5%

120W			E	DR-120
Model No.	Output	Tol.	R&N	Effi.

Model No.	Output	Tol.	R&N	Effi.
EDR-120-12	12V, 0~10A	±2.0%	100mV	85.0%
EDR-120-24	24V, 0~5A	±1.0%	120mV	87.5%
EDR-120-48	48V, 0~2.5A	±1.0%	150mV	88.5%



Best products also need best services.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.



Model No.	Output (230VAC/115VAC)	Tol.	R&N	Effi.
EDR-150-24	24V, 0~6.5A / 0~5.2A	±1.0%	150mV	87%



We are a TQM (Total Quality Management) company and ISO-9001 certified since 1994.



Who can provide you better services and be a trustworthy partner in the power industry?

— "MEAN WELL" tries to be —



We provide specification, drawing, test report and more information, please visit our website -

http://www.meanwell.com



48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs

75~480W Slim and Economical





Features

- Universal AC input / Full range
- Built-in active PFC function(NDR-240/480)
- High efficiency up to 93%
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- Low cost
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		NDR-75	NDR-120	NDR-240	NDR-480	
AC input volta	ge range	90~264VAC; 127~370VDC				
AC inrush cur	rent (max.)	Cold start, 35A at 230VAC				
DC adjustmen	t range	12V: 12~14V, 24V: 24~28\	/, 48V: 48~55V			
	Range	105%~130%				
Overload protection	Туре	Constant current limiting, auto-recovery			Constant current limiting, shut off after 3 sec., re-power on to recover	
Over voltage	Range	2V: 14~17V, 24V: 29~33V, 48V: 56~65V				
protection	Туре	Shut down o/p voltage, re-power on to recover				
Over temperat	ure protection	Shut down o/p voltage, re-power on to recover Shut down o/p		Shut down o/p volta	voltage, auto-recovery	
Withstand vol	tage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC				
Working temp	erature	-20~+70°C (refer to output derating curve)				
Safety standa	rds	UL508, TUV EN60950-1 approved				
EMC standard	s	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2), EN61204-3				
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles				
Dimension (W	xHxD)(mm)	32x 125.2x 102	40x 125.2x 113.5	63x 125.2x 113.5	85.5x 125.2x 128.5	
Case No.		221B	992D	979C	984D	
Packing		28pcs / 15.3kg	20pcs / 13kg	12pcs / 13kg	8pcs / 15.4kg	

■ NDR-75 Series NEW © ® A CB CE NDR-240 Series

Model No.	Output	Tol.	R&N	Effi.
NDR-75-12	12V, 0~6.3A	±2.0%	100mV	85.5%
NDR-75-24	24V, 0~3.2A	±1.0%	150mV	88.0%
NDR-75-48	48V, 0~1.6A	±1.0%	240mV	89.0%

■ NDR-120 Series NEW & Us A CB CE

Model No.	Output	Tol.	R&N	Effi.
NDR-120-12	12V, 0~10A	±2.0%	100mV	85.5%
NDR-120-24	24V, 0~5A	±1.0%	120mV	88.0%
NDR-120-48	48V, 0~2.5A	±1.0%	150mV	89.0%

■ NDR-240 Series NEW (P) (N) (A) (A) CB (E

Model No.	Output	Tol.	R&N	Effi.
NDR-240-24	24V, 0~10A	±1.0%	150mV	88%
NDR-240-48	48V, 0~5A	±1.0%	150mV	89%

■ NDR-480 Series NEW P • W LA CBCE

Model No.	Output	Tol.	R&N	Effi.
NDR-480-24	24V, 0~20A	±1.0%	150mV	93%
NDR-480-48	48V, 0~10A	±1.0%	150mV	93%



Customer Satisfaction —

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.



One Stop Shopping

· Total Solution

75~960W Slim and High Efficiency





Features

- High efficiency up to 94%
- Universal AC input / Full range (SDR-75/120/240/480)
 AC input 180~264VAC only (SDR-960)
- Built-in active PFC function (SDR-120/240/480/960)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508(industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact (except for SDR-75)
- 150% peak load capability (SDR-75/120/240/480)
 130% peak load capability (SDR-960)
- Current sharing up to 3840W (7+1) for SDR-480P
 Current sharing up to 3840W (3+1) for SDR-960
- Comply with GL (SDR-120/240/480)
 Comply with SEMI F47 (SDR-75/120/240/480)
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		SDR-75	SDR-120	SDR-240	SDR-480□	SDR-960
AC input vol	tage range	88~264VAC; 124~	370VDC		90~264VAC; 127~370VDC	180~264VAC; 254~370VDC
AC inrush co	AC inrush current (may)		Cold start, 80A at 230VAC	Cold start, 50A at 230VAC		
DC adjustme	ent range	12V: 12~14V (only	for SDR-75/120)	, 24V: 24~28V, 48V: 48	5~55V	
Overload pro	otection			ted output power for 3 so covery (re-power on to r		Normally works within 105%-130% rated output power for 3 seconds and then shut down o/p voltage with auto-recovery after 30 seconds if the peak load condition is removed
Overioau pro	Jection	· ·		constant current limiti shut down if over 2 se	3	Constant current limiting within 130%-150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power on to recover
Over voltage	Range	14~17V for 12V m	odel(SDR-75/120)), 29~33V for 24V mode	el, 56~65V for 48V mode	
protection	Туре	Shut down o/p vol	J ,	Shut down o/p voltage	e with auto-recovery, or	re-power on to recover
Over tempera	ture protection	Re-power on to recover	Recovers autom	atically after temperatu	ure goes down	
Withstand v	oltage	I/P-O/P:3kVAC, I/F	P-FG:1.5kVAC, O/	P-FG:0.5kVAC, O/P-DO	C OK:0.5kVAC (except fo	or SDR-75)
Working tem	perature	-30~+70°C	-25~+70°C (refe	r to output derating cu	rve)	-30~+70°C
Safety standards UL508, TUV EN60950-1, GL (SDR-120/240/480) approved						
EMC standards EN55011(SDR-120/240/480), EN55022 class B, EN61000-3-2,3, EN61000-4-2, EN61000-6-2 (EN50082-2), EN61204-3; SEMI (SDR-75/120/240/480), GL (SDR						
Connection		I/P: 3 poles, O/P: screw DIN termina		I/P: 3 poles, O/P: 6 poles screw DIN terminal	I/P: 3 poles, O/P: 8 poles screw DIN terminal	I/P:3 poles, O/P: 6 poles screw DIN terminal
Dimension (WxHxD)(mm)	32x125.2x102	40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5	110x125.2x150

Model No.	Output	Tol.	R&N	Effi.
SDR-75-12	12V, 0~6.3A	±1.0%	100mV	88.5%
SDR-75-24	24V, 0~3.2A	±1.0%	100mV	89.0%
SDR-75-48	48V, 0~1.6A	±1.0%	120mV	90.0%

Model No.	Output	Tol.	R&N	Effi.
SDR-120-12	12V, 0~10A	±1.0%	100mV	89.0%
SDR-120-24	24V, 0~ 5A	±1.0%	100mV	91.0%
SDR-120-48	48V, 0~2.5A	±1.0%	120mV	90.5%

SDR-240 Serie	es	P: Uus	GL A A A A A A A A A A A A A A A A A A A	CB (€
Model No.	Output	Tol	R&N	Effi.

Model No.	Output	Tol.	R&N	Effi.
SDR-240-24	24V, 0~10A	±1.0%	100mV	94%
SDR-240-48	48V, 0~5A	±1.0%	120mV	94%

■ SDR-480 Se	eries	Parallel (P) (V)	IS GL AMARINE	CB (€
Model No.	Output	Tol.	R&N	Effi.

SDR-480 -24 24V, 0~20A ±1.2% 100mV 94% SDR-480 -48 48V, 0~10A ±1.0% 120mV 94% = blank, P; Blank: basic function, P: with parallel function

SDR-960 Se	eries	(Parallel)		CB (€
Model No.	Output	Tol.	R&N	Effi.
SDR-960-24	24V, 0~40A	±1.0%	180mV	94%

±1.0%

250mV

94%

48V, 0~20A

SDR-960-48

DIN Series 120~480W Slim and Wide Input Range





Features

- Single and two phase wide input range 180~550VAC
- Built-in active PFC (WDR-240/480)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508(industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		WDR-120	WDR-240	WDR-480			
AC input voltage r	ange	180~550VAC(single and two phase); 254~780VD	180~550VAC(single and two phase); 254~780VDC				
AC input current		0.55A / 400VAC, 1.2A / 230VAC	1A / 400VAC, 2A / 230VAC	1.6A / 400VAC, 4A / 230VAC			
AC inrush current	(max.)	Cold start, 50A at 400VAC					
DC adjustment ran	ge	12V: 12~15V, 24V: 24~29V, 48V: 48~58V	24V: 24~28V, 48V: 48~55V				
Overload protection		105%~130% rated output power, constant current limiting, auto-recovery	105%~130% rated output power, constant current limiting, unit will shut down after 3 sec.; auto-recovery after 1 minute if the fault condiction is removed.				
	Range	16~18V for 12V model (only for WDR-120), 29~3	3V for 24V model, 56~65V for 48V	/ model			
Over voltage protection	Туре	Shut down o/p voltage, auto-recovery	Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed				
Setup, rise, hold up time		2000ms, 70ms, 10ms at full load and 230VAC; 2000ms, 70ms, 50ms at full load and 400VAC	1500ms, 150ms, 18ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC	2000ms, 150ms, 16ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC			
Over temp. protect	ion	Shut down output voltage, recovers automatically after temperature goes down					
Withstand voltage		I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:0.5kVAC, O/P-DC OK:0.5kVAC, 1 minute					
Isolation resistance	e	100MΩ(min.)@500VDC					
Working temperatu	ıre	-25~+70°C (refer to output derating curve)	-30~+70°C (refer to output derating curve)				
DC OK signal		Relay Contact					
Leakage current		<3.5mA at 530VAC					
Vibration		10~500Hz, 2G 10 minutes / 1 cycle, period of 60	minutes each along X, Y, Z axes				
Safety standards		UL508 approved; IEC60950-1 CB approved by S	SIQ ; Design refer to GL				
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level					
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal	I/P: 3 poles, O/P: 6 poles screw	DIN terminal			
Dimension (WxHxD)(mm)	40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5			
Packing		20pcs / 14kg	12pcs / 13.7kg	8pcs / 14.6kg			

■ WDR-120 Series	¢ (∮L) us CB (€

Model No.	Output	Tol.	R&N	Effi.
WDR-120-12	12V, 0~10A	±1.5%	120mV	89.5%
WDR-120-24	24V, 0~5A	±1.0%	120mV	91%
WDR-120-48	48V, 0~2.5A	±1.0%	150mV	92%

■ WDR-240 Series			P(⊕ CB (€	
Model No.	Output	Tol.	R&N	Effi.	
WDR-240-24	24V, 0~10A	±1.0%	150mV	91%	
WDR-240-48	48V, 0~5A	±1.0%	150mV	91%	

® (L) CB(€ ■ WDR-480 Series

Model No.	Output	Tol.	R&N	Effi.
WDR-480-24	24V, 0~20A	±1.0%	100mV	92%
WDR-480-48	48V, 0~10A	±1.0%	150mV	93%



Customer Satisfaction -

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.



To satisfy our customers is our goal — • High Quality • Low Cost Low Cost

· Prompt Delivery

· Best Service



960W High Input Voltage

- · Input 340~550VAC, 3-phase
- Width only 110mm
- Built-in active PFC function
- High efficiency up to 94.5%
- Protections: Short circuit / Overload / Over voltage / Over temp.
- · Cooling by free air convection
- Installed on DIN rail TS-35 / 7.5 or 15
- EN61000-6-2(EN50082-2) industrial immunity level
- · Current sharing up to 3840W (3+1)
- · Built-in DC OK relay contact
- · 3 years warranty

40 & 60W Output Current Programmable

- · Universal AC input / Full range
- Io can be trimmed 10~100% by 1~10Vdc, PWM signal or resistance
- Installed on DIN rail TS-35 / 7.5 or 15
- · Protections: Short circuit / Overload / Over voltage
- · Pass LPS

- · Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- · Suitable for machine vision inspection system and plant cultivation application
- · 3 years warranty

Parallel P. (L) CB(E



AC input voltage range	340~550VAC, 3-phase (2-phase operation possible)
AC input current (Typ.)	2A / 400VAC, 1.4A / 500VAC
AC inrush current	Cold start, 60A at 400VAC
DC adjustment range	24V: 24~28V, 48V: 48~55V
Overload protection	105%~130% rated output power, constant
	current limiting, unit will shut down after 3
	sec., re-power on to recover
Over voltage protection	29~33V (24V model), 56~65V (48V model),
	shut down o/p voltage, re-power on to recover
Over temperature	Shut down o/p voltage, recovers automatically
	after temperature goes down
Withstand voltage	I/P-O/P:3kVAC I/P-FG:2kVAC O/P-FG:
	0.5kVAC, O/P-DC OK: 0.5kVAC
Working temperature	-30~+70°C (refer to output derating curve)
Safety standards	UL508 approved; IEC60950-1 CB approved
	by SIQ
EMC standards	EN55022 class B, EN61000-3-2,3,
	EN61000-4-2,3,4,5,6,8,11, EN61000-6-2
	(EN50082-2), EN61204-3, heavy industry level
Connection	I/P: 3 poles, O/P: 6 poles screw DIN terminal

Model No.	Output	Tol.	R&N	Effi.
TDR-960-24	24V, 0~40A	±1.0%	180mV	94.0%
TDR-960-48	48V, 0~20A	±1.0%	250mV	94.5%



Best products also need best services.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.



AC input voltage range 90~264VAC; 127~370VDC
AC inrush current Cold start, 60A at 230VAC
DC adjustment range 12V: 12~15V, 24V: 24~30V
Current adjustment range 10%~100% rated output current adjustable
by 1~10Vdc, PWM signal or resistance
Overload protection 95%~108% rated output power,
constant current limiting, auto-recovery
Over voltage protection 120%-155% rated output power, shut down
o/p voltage, re-power on to recover
Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC,
O/P-FG: 0.5kVAC
Working temperature30~+70°C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11, EN61204-3
Connection

* DRA-40 Series

Mo	del No.	Output	Tol.	R&N	Effi.
DRA	A-40-12	12V, 0~3.34A	±1.0%	120mV	85%
DRA	A-40-24	24V, 0~1.7A	±1.0%	150mV	87%

* DRA-60 Series

Model No.	Output	Tol.	R&N	Effi.
DRA-60-12	12V, 0~5A	±1.0%	120mV	85%
DRA-60-24	24V, 0~2.5A	±1.0%	150mV	87%



We provide specification, drawing, test report and more information, please visit our website

http://www.meanwell.com



Products

· One Stop Shopping

· Total Solution



Customer Satisfaction -

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.

20A & 40A Peripheral Module



20A Power Supply Redundancy Module

- Suitable for redundant operation of 24V system
- Installed on DIN rail TS-35 / 7.5 or 15
- Relay contact signal output and LED indicator for input failure alarm
- · Cooling by free air convection
- · 3 years warranty

t •

- Battery controller for DIN rail UPS system
- · Parallel connected to DC BUS
- Suitable for 24V system up to 40A
- Installed on DIN Rail TS-35 / 7.5 or 15
- · Built-in battery test function
- · Battery polarity protection
- Relay contact signal output and LED indicator for DC BUS OK, Battery Fail, and Battery Discharge
- · Cooling by free air convection
- · 3 years warranty





DC input voltage range	.21~28V, 20A max. x 2 channels
Reverse voltage	30V
DC output current	20A max.
DC output voltage drop	0.6V max.
Input voltage alarm	When input is > 20V(\pm 5%) and <30V(\pm 5%), relay contacts
Relay contact rating	.30VDC, 1A
Working temperature	-40~+70°C
Safety standard	UL508 approved
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11
Connection	I/P: 4 poles, O/P: 2 poles screw DIN terminal,
	Single output: 4 poles

Model No.	Output	Reverse Voltage	Current
DR-RDN20	24V, 20A	30V max.	20A max.

CASE: 923D 55.5x 125.2x 100 mm

External battery (typ.) 24V, 4AH / 7AH / 12AH

DC bus ok Relay status : Short when DC voltage between

40A DC UPS Module

21~29V(±3%), relay contacts

LED(Green): DC bus OK: light; DC bus fail: dark

Battery fail Relay status : Short when battery failure is

observed through the battery test function, relay contacts

LED(Red): Battery over-discharge warning or battery broken: light;

Battery OK: dark

 ${\tt Battery\ discharge\} \ {\tt Relay\ status: Short\ when\ battery\ in\ discharge}$

condition, relay contacts LED(Yellow): Battery discharging: light;

Battery is not discharging or

discharging current <2A: dark

Working temperature -20~+70°C

EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11 Connection I/P: 2 poles, O/P: 2 poles screw DIN terminal,

Single output: 6 poles

Model No.DC BUS VoltageDC BUS CurrentDR-UPS4024~29V40A max.

Block Diagram LOAD LOAD DETECTION CIRCUIT DETECTION CIRCUIT DC BAT BAT OK FAIL DISCHARGE

Example of Application								
Back up connection for AC interruption								
24V Battery	DR-UPS40	DIN Rail Power 24V	Load + -					

▶ Feature Description

DR-RDN20 is a 20A redundancy (decoupling) module for the 24VDC power system. Containing 2 sets of 20A Or-ing diodes with wonderful heat dissipation deployment, DR-RDN20 offers a safe option of 1+1 redundant set-up. Not only perfectly decouple power sources from each other as well as from the load, DR-RDN-20 also provides users monitoring signals for both input channels through the built-in relays.

DR-UPS40 is a 40A max. DC UPS (battery control) module for the 24VDC power system. Accompany with external batteries, it can back-up up to 40A of current to critical loads for certain period of time depending on the capacity of batteries. With complete monitoring signals / LED indicators for DC BUS OK, Battery Fail, Battery Discharge, and the repeated Battery Test function to check the situation of external batteries, users can customize their own DC UPS system to back up critical loads and capture the status of the whole system easily.



To satisfy our customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
 Best Service

Open Frame 5~20W AC/DC Encapsulated Type

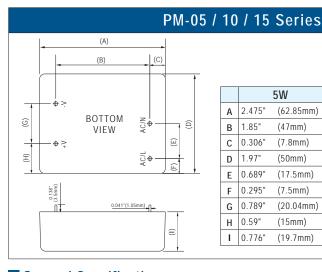




Features

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections: Short circuit / Overload / Over voltage
- Low leakage current < 300µA (20W)
- No load power consumption < 0.5W (<0.75W for 20W models)
- Fully isolated plastic case
- Isolation class II (5~15W)
- Cooling by free air convection
- Meet industrial, IT safety requirements
- 100% full load burn-in test
- 3 years warranty





	5W		10W		15W	
Α	2.475"	(62.85mm)	2.76"	(70mm)	2.95"	(75mm)
В	1.85"	(47mm)	2.13"	(54mm)	2.441"	(62mm)
С	0.306"	(7.8mm)	0.315"	(8mm)	0.256"	(6.5mm)
D	1.97"	(50mm)	1.97"	(50mm)	2.09"	(53mm)
Е	0.689"	(17.5mm)	0.689"	(17.5mm)	0.788"	(20mm)
F	0.295"	(7.5mm)	0.295"	(7.5mm)	0.256"	(6.5mm)
G	0.789"	(20.04mm)	0.789"	(20.04mm)	0.906"	(23.01mm)
Н	0.59"	(15mm)	0.59"	(15mm)	0.59"	(15mm)
ı	0.776"	(19.7mm)	0.89"	(22.7mm)	0.89"	(22.7mm)

PM-20 Series 3.7*(94mm) 3.252"(82.6mm) BOTTOM VIFW 0.041"(1.05mm)

General Specification

AC input voltage range85~264VAC; 120~370VDC

Frequency range47-440Hz

AC inrush current (max.) ... Cold start, 25A at 115VAC, 45A at 230VAC

(PM-15: 30A at 115VAC, 50A at 230VAC)

(PM-20: 30A at 115VAC, 65A at 230VAC)

Overload protection >105% hiccup mode, auto recovery

Over voltage protection 115%~135% rated output voltage, shut off,

AC recycle to re-start

Setup, rise, hold up time ... PM-5/15: 1000ms, 20ms, 100ms @ 230VAC

PM-10: 1800ms, 20ms, 100ms @ 230VAC

PM-20: 500ms, 20ms, 50ms @ 230VAC

Withstand voltage I/P-O/P: 4kVAC, 1 minute

Working temperature PM-5/10/15: -20~+70°C

PM-20: -20~+60°C

Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1,

UL60950-1 (PM-15) approved

EMC standards EN55011, EN55022 class B, EN61000-3-2,3

EN61000-4-2,3,4,5,6,8,11, EN55024,

EN60601-1-2, EN61204-3 Medical level, criteria A

Connection 4 industrial pins (20W: 6 industrial pins)

Packing 0.085kg; 120pcs / 11.2kg / 0.97CUFT(PM-05)

0.105kg; 120pcs / 13.6kg / 0.97CUFT(PM-10) 0.14kg; 120pcs / 17.8kg / 0.97CUFT(PM-15)

0.18kg; 90pcs / 17.2kg / 0.97CUFT(PM-20)

PM-05 Series

Model No.	Output	Tol.	R&N	Effi.
PM-05-3.3	3.3V, 0~1.25A	±3%	80mV	67%
PM-05-5	5V, 0~1.00A	±2%	80mV	71%
PM-05-12	12V, 0~0.42A	±2%	150mV	73%
PM-05-15	15V, 0~0.33A	±2%	150mV	74%
PM-05-24	24V, 0~0.23A	±2%	240mV	76%

PM-10 Series

Model No.	Output	Tol.	R&N	Effi.
PM-10-3.3	3.3V, 0~2.50A	±3%	150mV	66%
PM-10-5	5V, 0~2.00A	±2%	150mV	74%
PM-10-12	12V, 0~0.85A	±2%	150mV	78%
PM-10-15	15V, 0~0.67A	±2%	150mV	79%
PM-10-24	24V. 0~0.42A	+2%	240mV	79%

PM-15 Series

Model No.	Output	Tol.	R&N	Effi.
PM-15-3.3	3.3V, 0~3.50A	±3%	80mV	73%
PM-15-5	5V, 0~3.00A	±2%	80mV	76%
PM-15-12	12V, 0~1.25A	±2%	150mV	78%
PM-15-15	15V, 0~1.00A	±2%	150mV	79%
PM-15-24	24V, 0~0.63A	±2%	240mV	81%

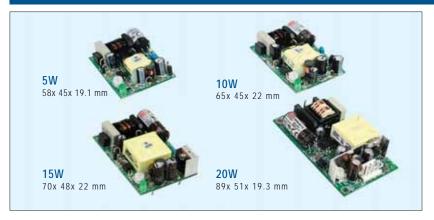
PM-20 Series

Model No.	Output	Tol.	R&N	Effi.
PM-20-3.3	3.3V, 0~4.50A	±3%	80mV	71%
PM-20-5	5V, 0~4.40A	±2%	80mV	75%
PM-20-12	12V, 0~1.80A	±2%	150mV	81%
PM-20-15	15V, 0~1.40A	±2%	150mV	83%
PM-20-24	24V, 0~0.92A	±2%	240mV	84%

Open Frame

5~20W AC/DC On Board Type





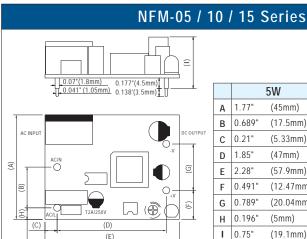
Features

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
 Suitable for BF application with appropriate system consideration
- Protections:

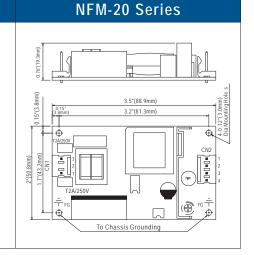
Short circuit / Overload / Over voltage / Over temp.

- Low leakage current < 300µA (20W)
- No load power consumption < 0.5W (<0.75W for 20W models)
- Isolation class II (5~15W)
- On-board type version available for 20W (optional)
- Cooling by free air convection
- · Meet industrial, IT safety requirements
- 100% full load burn-in test
- 3 years warranty





	5W		10W		15W	
Α	1.77"	(45mm)	1.77"	(45mm)	1.89"	(48mm)
В	0.689"	(17.5mm)	0.689"	(17.5mm)	0.788"	(20mm)
С	0.21"	(5.33mm)	0.22"	(5.5mm)	0.157"	(4mm)
D	1.85"	(47mm)	2.13"	(54mm)	2.441"	(62mm)
Ε	2.28"	(57.9mm)	2.56"	(65mm)	2.75"	(69.85mm)
F	0.491"	(12.47mm)	0.491"	(12.47mm)	0.492"	(12.5mm)
G	0.789"	(20.04mm)	0.789"	(20.04mm)	0.906"	(23.01mm)
Н	0.196"	(5mm)	0.196"	(5mm)	0.157"	(4mm)
ı	0.75"	(19.1mm)	0.87"	(22mm)	0.87"	(22mm)



General Specification

AC input voltage range 85~264VAC; 120~370VDC Frequency range47-440Hz AC inrush current (max.) Cold start, 25A at 115VAC, 45A at 230VAC (NFM-15: 30A at 115VAC, 50A at 230VAC) (NFM-20: 30A at 115VAC, 65A at 230VAC) DC adjustment range ±10% rated output voltage Overload protection >105% hiccup mode, auto recovery Over voltage protection 115%~135% rated output voltage, shut off, AC recycle to re-start Over temp. protection Shutdown o/p voltage, recovers automatically after temperature goes down Setup, rise, hold up time NFM-5/15: 1000ms, 20ms, 100ms @ 230VAC NFM-10: 1800ms, 20ms, 100ms @ 230VAC NFM-20: 500ms, 20ms, 50ms @ 230VAC Withstand voltage I/P-O/P: 4kVAC, 1 minute Working temperatureNFM-5/10/15: -20~+70°C NFM-20: -20~+60°C Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1, UL60950-1 (NFM-15) approved EMC standards EN55011, EN55022 class B, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3 Medical level, criteria A

Connection 4 industrial pins for 5~15W

3P/4P/3.96mm pitch, Molex 41791-03/04 for 20W

0.045kg; 120pcs / 6.4kg / 0.97CUFT(NFM-10) 0.065kg; 120pcs / 8.8kg / 0.97CUFT(NFM-15) 0.09kg; 105pcs / 10.5kg / 0.97CUFT(NFM-20)

5 W				NFM-05
Model No. NFM-05-3.3 NFM-05-5 NFM-05-12 NFM-05-15 NFM-05-24	Output 3.3V, 0~1.25A 5V, 0~1.00A 12V, 0~0.42A 15V, 0~0.33A 24V, 0~0.23A	Tol. ±2% ±2% ±1% ±1%	R&N 80mV 80mV 150mV 150mV 240mV	Effi. 67% 71% 73% 74% 76%
10W				NFM-10
Model No.	Output	Tol.	R&N	Effi.
NFM-10-3.3	3.3V, 0~2.50A	±2%	150mV	66%
NFM-10-5	5V, 0~2.00A	±2%	150mV	74%
NFM-10-12	12V, 0~0.85A	±1%	150mV	78%
NFM-10-15	15V, 0~0.67A	±1%	150mV	79%
NFM-10-24	24V, 0~0.42A	±1%	240mV	79%
15W				NFM-15
15W Model No.	Output	Tol.	R&N	NFM-15 Effi.
	Output 3.3V, 0~3.50A	Tol. ±2%	R&N 80mV	
Model No.	•			Effi.
Model No. NFM-15-3.3	3.3V, 0~3.50A	±2%	80mV	Effi . 73%
Model No. NFM-15-3.3 NFM-15-5 NFM-15-12 NFM-15-15	3.3V, 0~3.50A 5V, 0~3.00A 12V, 0~1.25A 15V, 0~1.00A	±2% ±2% ±1% ±1%	80mV 80mV 150mV	Effi. 73% 76% 78% 79%
Model No. NFM-15-3.3 NFM-15-5 NFM-15-12	3.3V, 0~3.50A 5V, 0~3.00A 12V, 0~1.25A	±2% ±2% ±1%	80mV 80mV 150mV	Effi. 73% 76% 78%
Model No. NFM-15-3.3 NFM-15-5 NFM-15-12 NFM-15-15	3.3V, 0~3.50A 5V, 0~3.00A 12V, 0~1.25A 15V, 0~1.00A	±2% ±2% ±1% ±1%	80mV 80mV 150mV	Effi. 73% 76% 78% 79%
Model No. NFM-15-3.3 NFM-15-5 NFM-15-12 NFM-15-15 NFM-15-24	3.3V, 0~3.50A 5V, 0~3.00A 12V, 0~1.25A 15V, 0~1.00A	±2% ±2% ±1% ±1%	80mV 80mV 150mV	Effi. 73% 76% 78% 79% 81%
Model No. NFM-15-3.3 NFM-15-5 NFM-15-12 NFM-15-15 NFM-15-24	3.3V, 0~3.50A 5V, 0~3.00A 12V, 0~1.25A 15V, 0~1.00A 24V, 0~0.63A	±2% ±2% ±1% ±1% ±1%	80mV 80mV 150mV 150mV 240mV	Effi. 73% 76% 78% 79% 81% NFM-20
Model No. NFM-15-3.3 NFM-15-5 NFM-15-12 NFM-15-15 NFM-15-24 20W Model No.	3.3V, 0~3.50A 5V, 0~3.00A 12V, 0~1.25A 15V, 0~1.00A 24V, 0~0.63A	±2% ±2% ±1% ±1% ±1%	80mV 80mV 150mV 150mV 240mV	Effi. 73% 76% 78% 79% 81% NFM-20 Effi.
Model No. NFM-15-3.3 NFM-15-5 NFM-15-12 NFM-15-15 NFM-15-24 20W Model No. NFM-20-3.3	3.3V, 0~3.50A 5V, 0~3.00A 12V, 0~1.25A 15V, 0~1.00A 24V, 0~0.63A Output 3.3V, 0~4.50A	±2% ±2% ±1% ±1% ±1%	80mV 80mV 150mV 150mV 240mV	Effi. 73% 76% 78% 79% 81% NFM-20 Effi. 71%
Model No. NFM-15-3.3 NFM-15-5 NFM-15-12 NFM-15-15 NFM-15-24 20W Model No. NFM-20-3.3 NFM-20-5	3.3V, 0~3.50A 5V, 0~3.00A 12V, 0~1.25A 15V, 0~1.00A 24V, 0~0.63A Output 3.3V, 0~4.50A 5V, 0~4.40A	±2% ±2% ±1% ±1% ±1% ±1%	80mV 80mV 150mV 150mV 240mV R&N 80mV 80mV	Effi. 73% 76% 78% 79% 81% NFM-20 Effi. 71% 75%

Open Frame

30~45W 1~3 Output Medical Type

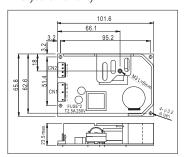


30W Single Output Medical Type

- · Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Protections: Short circuit / Overload /
- Low leakage current≤200µA
- · Compact size, low profile
- 100% full load burn-in test
- Over voltage / Over temp. 3 years warranty

⊞c**R**Lus 🖴 ☐ CB (€





AC input voltage range 88~264VAC; 120~370VDC
Overload protection>105% hiccup mode, auto-recovery
Over voltage protection 110%~135% rated output voltage
Leakage current Less than 200µA at 264VAC
Withstand voltage I/P-O/P: 4kVAC, I/P-FG:2kVAC, 1minute
Working temperature -10 ~ $+60$ °C (refer to output derating curve)
Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1,
IEC60601-1 approved
EMC standards EN55011 class B, EN60601-1-2, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
Connection 5+4P/ 3.96mm pitch, Molex P/N: 41791-05,04
Packing 0.16kg; 90pcs / 15.8kg / 1.02CUFT

Model No.	Output	Tol.	R&N	Effi.
MPS-30-5	5V, 0~5.0A	±3%	80mV	72%
MPS-30-12	12V, 0~2.5A	±3%	120mV	75%
MPS-30-15	15V, 0~2.0A	±3%	150mV	76%
MPS-30-24	24V, 0~1.2A	±3%	240mV	77%
MPS-30-27	27V, 0~1.1A	±3%	240mV	78%
MPS-30-48	48V, 0~0.6A	±2%	240mV	78%



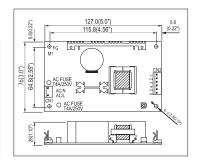
- · Universal AC input / Full range
- · Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- · High efficiency up to 93%
- Vo and Io can be trimmed by external control signal
- Active current sharing
- Built-in remote ON-OFF control and remote sense function
- Built-in 5V/0.3A, 12V/0.8A auxiliary power
- Forced air cooling by built-in DC fan with fan speed control
- Protections: Short circuit / Overload / Over voltage / Over temperature
- DC OK signal, OTP alarm signal
- Output models: 12V/15V/24V/27V/36V/48V
- Dimension(LxWxH): 320x85x41mm
- · 5 years warranty

45W 1~3 Output Medical Type

- · Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Protections: Short circuit / Overload
- / Over voltage
- Low leakage current≤250µA
- Approvals: UL / CUL / TUV / CB / CE
- Fixed switching frequency at 45kHz
- 100% full load burn-in test
- · 3 years warranty







AC input voltage range 90~	264VAC; 120~370VDC
AC inrush currentCol	d start, 17A at 115VAC, 35A at 230VAC
DC adjustment range CH	1: ±10% rated output voltage
Overload protection53~	75W hiccup mode, auto-recovery
Over voltage protectionCH	1: 115%~135% rated output voltage
Leakage currentLes	s than 250µA at 264VAC
Setup, rise, hold up time 800	ms, 30ms, 50ms at full load and 230VAC
Withstand voltage I/P-	O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
Working temperature10-	~+60°C (refer to output derating curve)
Safety standards ANS	SI/AAMI ES60601-1, TUV EN60601-1,
IEC	60601-1 approved
EMC standards ENS	55011 class B, EN61000-4-2,3,4,5,6,8,11,
EN	51000-3-2,3, EN60601-1-2
Connection 2P,6	6P/ 3.96mm pitch, Molex P/N: 5277-02, 5273-06
Packing0.18	8kg ; 72pcs/ 15.1kg / 1.35CUFT (MPS-45)
0.20	0kg ; 72pcs/ 17.4kg / 1.35CUFT (MPD-45)
* Single Output 0.2	1kg ; 72pcs/ 18.0kg / 1.35CUFT (MPT-45)

* Single Outp	out		_	
Model No.	Output	Tol.	R&N	Effi.
MPS-45-3.3	3.3V, 0~8.0A	±3%	80mV	65%
MPS-45-5	5V, 0~8.0A	±3%	100mV	72%
MPS-45-7.5	7.5V, 0~5.4A	±3%	100mV	75%
MPS-45-12	12V, 0~3.7A	±2%	100mV	76%
MPS-45-13.	5 13.5V, 0~3.3A	±2%	100mV	76%
MPS-45-15	15V, 0~3.0A	±2%	100mV	77%
MPS-45-24	24V, 0~1.9A	±2%	100mV	78%
MPS-45-27	27V, 0~1.7A	±2%	100mV	78%
MPS-45-48	48V, 0~1.0A	±2%	100mV	78%

* Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-45A	5V, 0.4~5.0A	±4%	60mV	76%	40W
	12V, 0.2~2.5A	±7%	120mV		
MPD-45B	5V, 0.4~5.0A	±4%	60mV	78%	45W
	24V, 0.2~1.8A	±7%	150mV		

* Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-45A	5V, 0.4~5.0A	±4%	60mV	73%	41W
	12V, 0.2~2.5A	±7%	120mV		
	-5V, 0.0~0.5A	±5%	60mV		
MPT-45B	5V, 0.4~5.0A	±4%	60mV	75%	43W
	12V, 0.2~2.5A	±7%	120mV		
	-12V, 0.0~0.5A	±5%	100mV		
MPT-45C	5V, 0.4~5.0A	±4%	60mV	75%	44W
	15V, 0.2~2.3A	±7%	120mV		
	-15V, 0.0~0.5A	±5%	100mV		

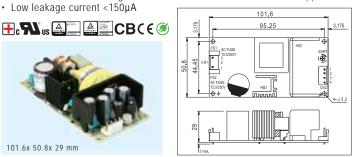


60W 1~3 Output Medical Type

- · 4"x2" compact size
- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections: Short circuit / Overload / Over voltage
- Low leakage current <150µA

• No load power consumption < 0.75W (single output models only)

- 110% peak load capability
- High power density 6.57W/in³
- Cooling by free air convection
- 3 years warranty
- Suitable for medical & IT applications



101.6x 50.8x 29 mm

AC input voltage range90~264VAC; 127~370VDC

AC inrush currentCold start, 30A at 115VAC, 60A at 230VAC

DC adjustment range5%~+10% rated output voltage (single output only)

Overload protection115%~150% hiccup mode, auto-recovery

Over voltage protection CH1: 110%~135% rated output voltage

Leakage currentLess than 150µA at 264VAC

Setup, rise, hold up time .. 500ms, 30ms, 50ms at full load and 230VAC (RPS-60)

200ms, 15ms, 70ms at full load and 230VAC (RPD/T-60)

Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute Working temperature-20~+70°C (RPS-60, refer to output derating curve)

-20~+65°C (RPD/T-60, refer to output derating curve)

Safety standardsANSI/AAMI ES60601-1, UL60950-1,

TUV EN60601-1, EN60950-1 approved

EMC standards EN55011 / EN55022 class B, EN61000-3-2,3,

EN61000-4-2,3,4,5,6,8,11, EN60601-1-2,

EN61204-3 medical level

3,6P / 3.96mm pitch, JST P/N: B3P / B6P-VH (RPD/T-60)

Packing 0.15kg; 96pcs / 15.4kg / 0.89CUFT

* Single Output

Model No.	Output	Tol.	R&N	Effi.
RPS-60-3.3	3.3V, 0~11A	±2%	80mV	74%
RPS-60-5	5V, 0~11A	±2%	80mV	79%
RPS-60-12	12V, 0~5.5A	±2%	120mV	83%
RPS-60-15	15V, 0~4.4A	±2%	150mV	84%
RPS-60-24	24V, 0~2.75A	±1%	240mV	85%
RPS-60-48	48V, 0~1.375A	±1%	300mV	86%

* Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD-60A	5V, 0.5~5.5A	+3%,-2%	80mV	78%	54W
	12V, 0.1~2.2A	±6%	80mV		
RPD-60B	5V, 0.5~3.85A	+3%,-2%	80mV	82%	59W
	24V, 0.1~1.65A	+8%,-4%	100mV		

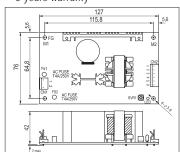
* Triple Outp	out				
Model No.	Output	Tol.	R&N	Effi.	Max.
RPT-60A	5V, 0.5~4.4A	+3%,-2%	80mV	77%	51W
	12V, 0.1~2.2A	±6%	80mV		
	-5V, 0.1~0.55A	+9%,-8%	80mV		
RPT-60B	5V, 0.5~4.4A	+3%,-2%	80mV	78%	55W
	12V, 0.1~2.2A	±6%	80mV		
	-12V, 0.1~0.55A	+10%,-6%	100mV		
RPT-60C	5V, 0.5~4.4A	+3%,-2%	80mV	79%	55W
	15V, 0.1~0.65A	±6%	100mV		
	-15V, 0.1~0.55A	±8%	150mV		
RPT-60D	5V, 0.5~3.85A	+3%,-2%	80mV	79%	52W
	24V, 0.1~1.1A	±6%	150mV		
	12V, 0.1~0.55A	±8%	80mV		
RPT-6003	3.3V, 0.5~5.5A	+3%,-2%	80mV	75%	44W
	5V, 0.3~3.3A	±8%	80mV		
	12V, 0.1~0.77A	+10%,-6%	80mV		

65W 1~3 Output Medical Type

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Protections: Short circuit / Overload 100% full load burn-in test / Over voltage
- Low leakage current≤250µA
- · Fixed switching frequency at 45kHz

 - 3 years warranty





AC input voltage range 90~264VAC; 127~370VDC
AC inrush current Cold start, 17A at 115VAC, 35A at 230VAC
DC adjustment range CH1: ±10% rated output voltage
Overload protection 73%~105% hiccup mode, auto-recovery
Over voltage protection CH1: 115%~135% rated output voltage
Leakage currentLess than 250µA at 264VAC
Setup, rise, hold up time 800ms, 30ms, 50ms at full load and 230VAC
Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
Working temperature10~+60°C (refer to output derating curve)
Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1 approved
EMC standards EN55011 class B, EN61000-4-2,3,4,5,6,8,11,
EN61000-3-2,3, EN60601-1-2
Connection
Packing 0.23kg; 54pcs/ 14.6kg / 1.35CUFT (MPS-65)
0.25kg; 54pcs/ 16.0kg / 1.35CUFT (MPD-65)
0.27kg; 54pcs/ 16.8kg / 1.35CUFT (MPT-65)

& Single Output

•	Single Output				
	Model No.	Output	Tol.	R&N	Effi.
	MPS-65-3.3	3.3V, 0~12A	±3%	80mV	66%
	MPS-65-5	5V, 0~12A	±3%	100mV	74%
	MPS-65-7.5	7.5V, 0~8.0A	±3%	100mV	76%
	MPS-65-12	12V, 0~5.2A	±2%	100mV	77%
	MPS-65-13.5	13.5V, 0~4.7A	±2%	100mV	78%
	MPS-65-15	15V, 0~4.2A	±2%	100mV	79%
	MPS-65-24	24V, 0~2.7A	±2%	100mV	80%
	MPS-65-27	27V, 0~2.4A	±2%	100mV	80%
	MPS-65-48	48V, 0~1.35A	±2%	100mV	80%

* Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-65A	5V, 0.4~7.0A	±4%	60mV	75%	61W
	12V, 0.2~3.2A	±7%	150mV		
MPD-65B	5V, 0.4~6.0A	±4%	60mV	78%	66W
	24V. 0.2~2.6A	+7%	150mV		

* Triple Output

Triple Carpa.					
Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-65A	5V, 0.4~7.0A	±4%	60mV	74%	60W
	12V, 0.2~3.2A	+10%,-7%	120mV		
	-5V, 0.0~0.7A	±5%	60mV		
MPT-65B	5V, 0.4~7.0A	±4%	60mV	74%	64W
	12V, 0.2~3.2A	+10%,-7%	160mV		
	-12V, 0.0~0.7A	±5%	100mV		
MPT-65C	5V, 0.4~7.0A	±4%	60mV	74%	65W
	15V, 0.2~2.6A	+10%,-7%	180mV		
	-15V, 0.0~0.7A	±5%	100mV		

pen Frame 75~160W 1~3 Output Medical Type



75W 1~3 Output Medical Type

- · Universal AC input / Full range
- Medical safety approved (2xMOPP)
- / Over voltage
- No load power consumption < 0.75W 3 years warranty (single output models only)
- Low leakage current <150µA
- · Fixed switching frequency at 65kHz
- Protections: Short circuit / Overload Free air convection for 75W and 100W with 23.5CFM forced air

 - · Suitable for medical & IT applications

min. FAN . **+** c**91** us **△** CB C € **∅**



AC input voltage range 90~264VAC; 127~370VDC
AC inrush current Cold start, 25A at 115VAC, 50A at 230VAC
DC adjustment range CH1: -5%~+10% rated output voltage
Overload protection 140%~180% hiccup mode, auto-recovery
Over voltage protection CH1: 115%~135% rated output voltage
Leakage current Less than 150µA at 264VAC
Setup, rise, hold up time 500ms, 30ms, 80ms at full load and 230VAC
Withstand voltageI/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
Working temperature20~+70°C (refer to output derating curve)
Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1 approved
EMC standards EN55011 / EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11, EN61000-6-2,
EN60601-1-2, EN61204-3 medical level
Connection3+8P / 3.96mm pitch, JST P/N: B3P / B8P-VH
Packing 0.26kg; 63pcs / 16.3kg / 1.35CUFT(RPS-75)
0.25kg; 63pcs / 16.7kg / 1.35CUFT(RPD-75)
0.26kg; 63pcs / 17.4kg / 1.35CUFT(RPT-75)

* Single Output

Model No.	Output	Tol.	R&N	Effi.
RPS-75-3.3	3.3V, 0~20A	±2%	80mV	73%
RPS-75-5	5V, 0~18.7A	±2%	80mV	78%
RPS-75-12	12V, 0~8.3A	±1%	120mV	82%
RPS-75-15	15V, 0~6.7A	±1%	150mV	83%
RPS-75-24	24V, 0~4.2A	±1%	240mV	85%
RPS-75-36	36V, 0~2.8A	±1%	300mV	86%
RPS-75-48	48V, 0~2.1A	±1%	300mV	86%

* Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD-75A	5V, 1.0~9.5A	±2%	80mV	77%	96W
	12V, 0.3~4.0A	±6%	120mV		
RPD-75B	5V, 1.0~6.8A	±2%	80mV	79%	99W
	24V. 0.2~2.7A	+6%	200mV		

A Triple Output

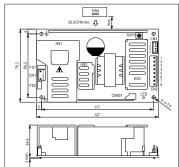
* Triple Output					
Model No.	Output	Tol.	R&N	Effi.	Max.
RPT-75A	5V, 0.6~8.0A	±2%	80mV	76%	93W
	12V, 0.2~4.0A	±6%	120mV		
	-5V, 0.1~1.0A	±5%	120mV		
RPT-75B	5V, 0.6~8.0A	±2%	80mV	77%	100W
	12V, 0.2~4.0A	±6%	120mV		
	-12V, 0.1~1.0A	±5%	120mV		
RPT-75C	5V, 0.6~8.0A	±2%	80mV	77%	100W
	15V, 0.1~3.0A	±8%	150mV		
	-15V, 0.1~1.0A	±5%	150mV		
RPT-75D	5V, 0.6~7.0A	±2%	80mV	79%	95W
	24V, 0.1~2.0A	±8%	200mV		
	12V, 0.1~1.0A	±8%	120mV		
RPT-7503	3.3V, 0.7~7.0A	±4%	80mV	74%	81W
	5V, 0.0~8.0A	±6%	120mV		
	12V, 0.0~1.5A	+10%,-6%	120mV		

160W 1~3 Output Medical Type with PFC

- · Universal AC input / Full range
- Medical safety approved (2xMOPP)Suitable for BF application with appropriate system consideration
- · Built-in active PFC function
- · Protections: Short circuit / Overload / Over voltage / Over temp.
- Low leakage current <200μA
- · Free air convection for 110W and 160W with 20.5 CFM forced air (RPS-160); Free air convection for 100W and 150W with 20.5 CFM forced air (RPD / T-160)



- 5"x3" compact size
- With power good and fail signal output
- · Built-in remote sense function for 5~15V (RPS-160)
- Standby 5V@0.8A (G model)
- No load power consumption under 0.75W by PS-ON control (G model)
- 3 years warranty
- Suitable for medical & IT applications



00~264VAC; 127~370VDC
Cold start, 35A at 115VAC, 70A at 230VAC
RPS-160: ±10% rated output voltage
RPD/T-160: 0~+10% for CH1
05%~135% hiccup mode, auto-recovery
CH1: 115%~135% shut off,
e-power on to recovery
ess than 200µA at 264VAC
800ms, 30ms, 16ms at full load and 230VAC
/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
20~+70°C (refer to output derating curve)
ANSI/AAMI ES60601-1, TUV EN60601-1 approved
EN55011/EN55022 class B,
EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3,
EN60601-1-2, EN61000-6-2 (RPS(G)-160)
8+8+2(4)P/3.96mm pitch JST B3P / B8P-VH,
32B (B4B)-XH

Single Output

127x 76.2x 34.6mm

Model No.	Output	Tol.	R&N	Effi.	
RPS□-160-5	5V, 0~30.0A	±4%	100mV	85%	
RPS□-160-12	12V, 0~12.9A	±3%	100mV	87%	
RPS□-160-15	15V, 0~10.3A	±3%	120mV	87%	
RPS□-160-24	24V, 0~6.5A	±2%	150mV	87%	
RPS□-160-48	48V. 0~3.25A	+2%	250mV	88%	

* Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD□-160B	5V, 1.0~12A	±2.5%	80mV	84%	150W
	24V. 0.2~3.6A	+6%	200mV		

* Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPT□-160A	5V, 0.6~14A	±2%	100mV	84%	145W
	12V, 0.2~5.5A	±5%	120mV		
	-5V, 0.1~1.0A	-5%,+7%	120mV		
RPT□-160B	5V, 0.6~14A	±2%	100mV	84%	146W
	12V, 0.2~5.0A	±5%	120mV		
	-12V, 0.1~1.0A	-4%,+5%	120mV		
RPT□-160C	5V, 0.6~14A	±2%	100mV	83%	143W
	15V, 0.1~3.6A	±4%	150mV		
	-15V, 0.1~1.0A	±8%	150mV		
RPT□-160D	5V, 0.3~11A	±2%	100mV	83%	148W
	12V, 0.2~5.0A	±5%	120mV		
	24V, 0.15~1.2A	-5%,+7%	200mV		

□ = blank, G; blank: basic function, G: with 5Vsb/0.8A & no load power consumption < 0.75W



200W 1~4 Output Medical Type with PFC

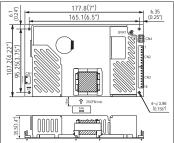
- · Universal AC input / Full range
- Medical safety approved (2xMOPP) Suitable for BF application with appropriate system consideration
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Low leakage current≤180µA

177.8x 107.2x 35.5 mm

· With P.G. and P.F. signal output

- · Built-in remote sense and remote ON/OFF control
- · 140W free air convection, 200W with 25CFM forced air
- · 100% full load burn-in test
- · 3 years warranty
- · Suitable for medical & IT applications





	00 0/4/40 407 070/400
AC input voltage range	90~264VAC; 127~370VDC
AC inrush current	Cold start, 35A at 115VAC, 60A at 230VAC
DC adjustment range	CH1: -5~+10% rated output voltage
Overload protection	110%~160% hiccup mode, auto-recovery
Over voltage protection	CH1: 115%~140% rated output voltage
Leakage current	Less than 180µA at 264VAC
Setup, rise, hold up time	1000ms, 20ms, 16ms at full load and 230VAC
Withstand voltage	I/P-O/P: 4kVAC, I/P-FG: 1.5kVAC, 1 minute
Working temperature	-20~+70°C (refer to output derating curve)
Safety standards	ANSI/AAMI ES60601-1, TUV EN60601-1,
	IEC60601-1 approved; Design refer to UL60950-1,
	TUV EN60950-1
EMC standards	EN55011/EN55022 class B,
	EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3,
	EN60601-1-2, EN61000-6-2
Connection	3P, 20P / 3.96mm pitch, JST B3P/VH, Molex 5566-20
	3P, 8Px2 / 3.96mm pitch, JSTB3P / B8Px2-VH
Packing	0.66kg; 24pcs / 16.8kg / 0.99CUFT

* Single Output

Model No.	Output	Tol.	R&N	Effi.	
MPS-200-3.3	3.3V, 0~40A	±2%	80mV	77%	
MPS-200-5	5V, 0~40A	±2%	80mV	81%	
MPS-200-12	12V, 0~16.7A	±2%	100mV	84%	
MPS-200-15	15V, 0~13.4A	±2%	100mV	85%	
MPS-200-24	24V, 0~8.4A	±1%	150mV	86%	
MPS-200-48	48V, 0~4.2A	±1%	200mV	87%	

* Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-200A	5V, 4.0~24A	±2%	80mV	82%	196W
	12V, 0.8~9.6A	+8%,-5%	120mV		
MPD-200B	5V, 4.0~24A	±2%	80mV	83%	196W
	24V, 0.4~4.8A	±6.5%	180mV		

Triple Output					
Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-200A	5V, 4.0~24A	±2%	80mV	80%	200W
	12V, 0.8~9.0A	±8%	120mV		
	-5V, 0.0~2.4A	±5%	80mV		
MPT-200B	5V, 4.0~24A	±2%	80mV	80%	196W
	12V, 0.6~7.2A	±8%	120mV		
	-12V, 0.0~2.4A	±5%	80mV		
MPT-200C	5V, 4.0~24A	±2%	80mV	80%	201W
	15V, 0.5~5.6A	±8%	150mV		
	-15V, 0.0~2.4A	±5%	80mV		
MPT-200D	5V, 4.0~24A	±2%	80mV	81%	196W
	24V, 0.3~3.6A	$\pm 8\%$	180mV		
	12V, 0.0~2.4A	±5%	80mV		

* Quad Output

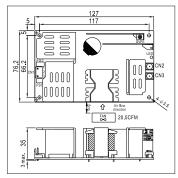
Model No.	Output	Tol.	R&N	Effi.	Max.
MPQ-200B	5V, 3.0~18A	±2%	80mV	78%	193W
	12V, 0.7~8.4A	±8%	120mV		
	-5V, 0.0~2.4A	±5%	80mV		
	-12V, 0.0~2.4A	±5%	80mV		
MPQ-200C	5V, 3.0~18A	±2%	80mV	78%	190W
	15V, 0.5~6.0A	±6%	150mV		
	-5V, 0.0~2.4A	±5%	80mV		
	-15V, 0.0~2.4A	±5%	80mV		
MPQ-200D	5V, 3.0~18A	±2%	80mV	79%	195W
	24V, 0.3~3.6A	±8%	180mV		
	12V, 0.0~2.4A	±5%	80mV		
	-12V, 0.0~2.4A	±5%	80mV		
MPQ-200F	5V, 3.0~18A	±2%	80mV	81%	200W
	24V, 0.3~3.3A	±8%	180mV		
	15V, 0.0~2.4A	±5%	80mV		
	-15V, 0.0~2.4A	±5%	80mV		

300W Single Output Medical Type with PFC

- 5"x 3" compact size
- · Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- · Withstand 300VAC surge input for
- Built-in active PFC function
- No load power consumption < 0.5W by PS-ON control
- · High efficiency up to 93%
- · Built-in 12V/0.5A auxiliary output
- **+** Ø



- · Built-in remote sense function
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Low leakage current <300µA
- Free air convection for 200W and 300W with 20.5 CFM forced air
- Standby 5V@1A
- With P.G and P.F. signal output
- High power density 14.5W/in³
- 3 years warranty



AC input voltage range 90~264VAC; 127~370VDC
AC inrush current Cold start, 40A at 115VAC, 80A at 230VAC
DC adjustment range ±5% rated output voltage
Overload protection 105%~135% hiccup mode, auto-recovery
Over voltage protection 110%~125% shut off, re-power on to recovery
Leakage current Less than 300µA at 264VAC
Setup, rise, hold up time 2500ms, 30ms, 13ms at full load and 230VAC
Withstand voltageI/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
Working temperature30~+70°C (refer to output derating curve)
Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1
EMC standards EN55011, EN55022 conduction class B,
radiation class A, EN61000-4-2,3,4,5,6,8,11,
EN61000-3-2,3, EN60601-1-2

Model No.	Output	Tol.	R&N	Effi.
RPS-300-12	12V, 0~25A	±3%	120mV	90.0%
RPS-300-15	15V, 0~20A	±3%	120mV	90.0%
RPS-300-24	24V, 0~12.5A	±2%	150mV	92.5%
RPS-300-27	27V, 0~11.12A	±2%	200mV	93.0%
RPS-300-48	48V, 0~6.25A	±2%	250mV	93.0%

Open Frame

5~35W Single and Dual Output

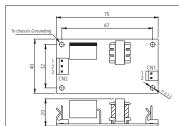


5W & 15W & 35W Single Output

- · Universal AC input / Full range
- · Protections:
- Short circuit / Overload / Over voltage / Over temperature(PS-05/15)
- · Cooling by free air convection

CB(€





Low leakage current < 0.5mA(PS-05/15)

· 100% full load burn-in test

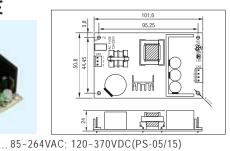
· Low cost, high reliability

· 2 years warranty

CN1 1 2

CB(€ **PS-15** 94x 49x 25 mm





AC input voltage range
AC inrush current
Overload protection
EMC standards

.. 115%~150% rated output voltage .. Hiccup mode, auto-recovery(PŠ-05/15) ... I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute ... -10~+60°C (PS-05/15); -20~+65°C (PS-35) ...IEC60950-1 CB approved(PS-05/15) UL60950-1, TUV EN60950-1 approved(PS-35) EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 PS-05: 3P/ 5mm, 2P/ 3.96mm pitch, Molex 5285-03,5273-02 Connection PS-15: 3+2P/3.96mm pitch, JST B3P/B2P-VH PS-35: 3+4P/3.96mm pitch, JST B3P/B4P-VH-B **∻** 5W

90~264VAC; 127~370VDC(PS-35) Cold start, 30A at 230VAC(PS-05),

40A at 230VAC(PS-15), 45A at 230VAC(PS-35) .. 105%~160% hiccup mode, auto-recovery

Model No.	Output	Tol.	R&N	Effi.
PS-05-5	5V, 0~1.0A	±2%	100mV	70%
PS-05-12	12V, 0~0.45A	±2%	120mV	75%
PS-05-15	15V, 0~0.35A	±2%	120mV	75%
PS-05-24	24V, 0~0.22A	±2%	200mV	76%
PS-05-48	48V. 0~0.11A	+1%	200mV	76%

	F 3-03-24	24V, U~U.ZZA	± Z /0	2001117	1070
	PS-05-48	48V, 0~0.11A	±1%	200mV	76%
÷	10W				
	Model No.	Output	Tol.	R&N	Effi.
	PS-15-5	5V, 0~2.80A	±2%	100mV	74%
	PS-15-12	12V, 0~1.25A	±2%	120mV	77%
	PS-15-15	15V, 0~1.00A	±2%	120mV	78%
	PS-15-24	24V, 0~0.625A	±2%	150mV	79%
	PS-15-48	48V, 0~0.313A	±2%	200mV	77%
÷	35W				
	Model No.	Output	Tol.	R&N	Effi.

*	35W					
	Model No.	Output	Tol.	R&N	Effi.	
	PS-35-3.3	3.3V, 0~6.0A	±2%	80mV	70%	
	PS-35-5	5V, 0~6.0A	±2%	100mV	78%	
	PS-35-7.5	7.5V, 0~4.7A	±2%	100mV	80%	
	PS-35-12	12V, 0~3.0A	±1%	120mV	81%	
	PS-35-13.5	13.5V, 0~2.6A	±1%	120mV	81%	
	PS-35-15	15V, 0~2.4A	±1%	150mV	81%	
	PS-35-24	24V, 0~1.5A	±1%	200mV	85%	
	PS-35-48	48V, 0~0.75A	±1%	240mV	84%	

25W 1~2 Output

- · Universal AC input / Full range
- Protections: Short circuit / Overload / 100% full load burn-in test
- Over voltage / Over temp. · Low cost, high reliability · Cooling by free air convection

• Low leakage current < 0.5mA

2 years warranty





AC input voltage range 85~264VAC; 120~370VDC
AC inrush current Cold start, 36A at 230VAC
Overload protection >105% hiccup mode, auto-recovery
Over voltage protection 115%~135% rated output voltage
Over temp. protection Shut down o/p voltage, re-power on to recover
Leakage current Less than 0.5mA at 240VAC
Withstand voltageI/P-O/P: 3kVAC, I/P-FG:2kVAC, 1minute
Working temperature10~+60°C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5
Connection 3P, 4P/ 3.96mm pitch, Molex P/N: 41791-03, 04
Packing 0.14kg; 96pcs / 15.0kg / 1.30CUFT(PS-25)
0.15kg; 96pcs / 15.9kg / 1.30CUFT(PD-25)

* Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-25-3.3	3.3V, 0~5.0A	±3%	80mV	66%
PS-25-5	5V, 0~5.0A	±2%	80mV	74%
PS-25-7.5	7.5V, 0~3.3A	±2%	80mV	76%
PS-25-12	12V, 0~2.1A	±2%	100mV	78%
PS-25-13.5	13.5V, 0~1.9A	±2%	100mV	78%
PS-25-15	15V, 0~1.7A	±2%	100mV	78%
PS-25-24	24V, 0~1.0A	±2%	240mV	79%
PS-25-27	27V, 0~0.9A	±2%	240mV	79%
PS-25-48	48V, 0~0.5A	±2%	350mV	79%

0.13kg; 96pcs / 15.4kg / 1.30CUFT(PD-2503)

* Dual Output

· Duai Output					
Model No.	Output	Tol.	R&N	Effi.	Max.
PD-25A	5V, 0.2~2.5A	±2%	50mV	71%	25W
	12V, 0.1~1.5A	±6%	150mV		
PD-25B	5V, 0.2~2.0A	±2%	50mV	77%	25W
	24V, 0.1~1.0A	±6%	200mV		
PD-2505	5V, 0.1~3.0A	±6%	50mV	73%	25W
	-5V, 0.1~2.5A	±6%	50mV		
PD-2512	12V, 0.1~1.2A	±4%	50mV	74%	24W
	-12V, 0.1~1.2A	±4%	50mV		
PD-2515	15V, 0.1~1.0A	±4%	50mV	75%	24W
	-15V, 0.1~1.0A	±4%	50mV		
PD-2503	3.3V, 0.2~5.0A	±2%	50mV	72%	25W
	5V, 0.1~4.0A	+5%,-8%	50mV		

Open Frame 45~65W Single, Dual, and Triple Output

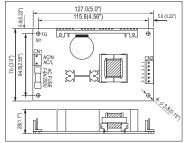


45W 1~3 Output

- · Universal AC input / Full range
- Protections: Short circuit / Overload 100% full load burn-in test / Over voltage
- Cooling by free air convection
- · Fixed switching frequency at 65kHz
- Low leakage current < 0.75mA

 - · Low cost, high reliability
 - · 2 years warranty

c**¶**us △ CB(€



AC input voltage range ... 90~264VAC; 127~370VDC

AC inrush currentCold start, 15A at 115VAC, 30A at 230VAC DC adjustment rangeCH1: -5%~+10% rated output voltage

Overload protection53~75W hiccup mode, auto-recovery Over voltage protection .. CH1: 115%~135% rated output voltage

Leakage currentLess than 0.75mA at 240VAC

Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC(PS-45 2kVAC)

Working temperature-10~+60°C (refer to output derating curve)

Safety standards UL60950-1, TUV EN60950-1 approved

EMC standards EN55022 class B, EN61000-3-2,3,

EN61000-4-2,3,4,5,6,8,11

Connection 2P, 6P/ 3.96mm pitch, Molex 5277-02 / 5273-06

Packing 0.19kg; 72pcs / 15.6kg / 1.35CUFT(PS-45)

0.20kg; 72pcs / 16.0kg / 1.35CUFT(PD-45)

0.21kg; 72pcs / 17.0kg / 1.35CUFT(PT-45)

* Single Output

127x 76x 28 mm

Model No.	Output	Tol.	R&N	Effi.
PS-45-3.3	3.3V, 0~8.0A	±3%	80mV	69%
PS-45-5	5V, 0~8.0A	±3%	100mV	74%
PS-45-7.5	7.5V, 0~5.4A	±3%	100mV	75%
PS-45-12	12V, 0~3.7A	±2%	100mV	76%
PS-45-13.5	13.5V, 0~3.3A	±2%	100mV	77%
PS-45-15	15V, 0~3.0A	±2%	100mV	77%
PS-45-24	24V, 0~1.9A	±2%	100mV	78%
PS-45-27	27V, 0~1.7A	±2%	100mV	78%
PS-45-48	48V, 0~1.0A	±2%	100mV	78%

* Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-45A	5V, 0.4~5.0A	±4%	50mV	77%	40W
	12V, 0.2~2.5A	±7%	120mV		
PD-45B	5V, 0.4~5.0A	±4%	50mV	78%	45W
	24V, 0.2~1.8A	±7%	120mV		

* Triple Output

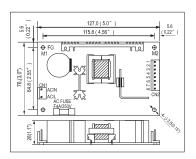
Model No.	Output	Tol.	R&N	Effi.	Max.
PT-45A	5V, 0.4~5.0A	±4%	50mV	75%	41W
	12V, 0.2~2.5A	±7%	120mV		
	-5V, 0.0~0.5A	±5%	50mV		
PT-45B	5V, 0.4~5.0A	±4%	50mV	75%	43W
	12V, 0.2~2.5A	±7%	120mV		
	-12V, 0.0~0.5A	±5%	100mV		
PT-45C	5V, 0.4~5.0A	±4%	50mV	75%	44W
	15V, 0.2~2.3A	±7%	120mV		
	-15V, 0.0~0.5A	±5%	100mV		

45W & 65W Triple Output with 3.3V Channel

- · Universal AC input / Full range
- Total power for CH1+2: 35W (PT-45) 100% full load burn-in test
- Total power for CH1+2: 54W (PT-65) 2 years warranty
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection

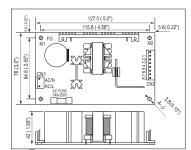






c Al us CBCE





AC input voltage range 90~264VAC; 127~370VDC
AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
DC adjustment range 3.3V: $\pm 10\%$ rated output voltage
Overload protection 120%~160% hiccup mode, auto-recovery
Over voltage protection5V: 115%-135% rated output voltage
Leakage current Less than 1.0mA at 240VAC
Setup, rise, hold up time 800ms, 50ms, 60ms at full load and 230VAC
Withstand voltageI/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
Working temperature10~+60°C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standardsEN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,11
Connection
Packing
0.28kg; 54pcs / 16.2kg / 1.35CUFT(PT-6503)

* Triple Output (45W)

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-4503	3.3V, 0.0~5.0A	±2%	50mV	72%	45W
	5V, 0.2~7.0A	+4%,-2%	50mV		
	12V, 0.0~1.2A	±8%	100mV		

* Triple Output (65W)

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-6503	3.3V, 0.0~7.0A	±3%	50mV	72%	62W
	5V, 0.2~10A	+4%,-2%	50mV		
	12V, 0.0~1.2A	±8%	100mV		



We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.

Open Frame 65W Single, Dual, and Triple Output

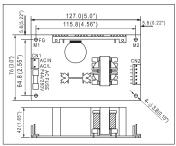


65W 1~3 Output

- · Universal AC input / Full range
- Protections: Short circuit / Overload 100% full load burn-in test / Over voltage
- · Cooling by free air convection
- Low leakage current < 0.75mA

 - · Low cost, high reliability
 - · 2 years warranty





AC input voltage range 90~264VAC; 127~370VDC
AC inrush currentCold start, 20A at 115VAC, 40A at 230VAC
DC adjustment rangeCH1: -5%~+10% rated output voltage
Overload protection73~105W hiccup mode, auto-recovery
Over voltage protectionCH1: 115%~135% rated output voltage
Leakage currentLess than 0.75mA at 240VAC
Setup, rise, hold up time800ms, 20ms, 60ms at full load and 230VAC
Withstand voltageI/P-O/P: 3kVAC, I/P-FG:1.5kVAC(PS-65 2kVAC)
Working temperature10~+60°C (refer to output derating curve)
Safety standardsUL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
Connection
5273-06
Packing 0.21kg ; 54pcs / 14.2kg / 1.35CUFT(PS-65)
0.24kg : 54pcs / 15.0kg / 1.35CUFT(PD-65)

* Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-65-3.3	3.3V, 0~12A	±3%	80mV	69%
PS-65-5	5V, 0~12A	±3%	100mV	76%
PS-65-7.5	7.5V, 0~8.0A	±3%	100mV	79%
PS-65-12	12V, 0~5.2A	±2%	100mV	79%
PS-65-13.5	13.5V, 0~4.7A	±2%	100mV	79%
PS-65-15	15V, 0~4.2A	±2%	100mV	79%
PS-65-24	24V, 0~2.7A	±2%	100mV	80%
PS-65-27	27V, 0~2.4A	±2%	100mV	80%
PS-65-48	48V, 0~1.35A	±2%	100mV	80%

0.25kg; 54pcs / 15.9kg / 1.35CUFT(PT-65)

* Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-65A	5V, 0.4~7.0A	±4%	50mV	78%	61W
	12V, 0.2~3.2A	±7%	120mV		
PD-65B	5V, 0.4~6.0A	±4%	50mV	81%	66W
	24V, 0.2~2.6A	±7%	150mV		

* Triple Output

* Triple Output					
Model No.	Output	Tol.	R&N	Effi.	Max.
PT-65A	5V, 0.4~7.0A	±4%	50mV	76%	60W
	12V, 0.2~3.2A	±7%	120mV		
	-5V, 0.0~0.7A	±5%	50mV		
PT-65B	5V, 0.4~7.0A	±4%	50mV	77%	64W
	12V, 0.2~3.2A	±7%	120mV		
	-12V, 0.0~0.7A	±5%	100mV		
PT-65C	5V, 0.4~7.0A	±4%	50mV	77%	65W
	15V, 0.2~2.6A	±7%	120mV		
	-15V, 0.0~0.7A	±5%	100mV		
PT-65D	5V, 0.5~5.0A	±4%	50mV	79%	68W
	12V, 0.2~4.0A	±6%	100mV		
	24V, 0.2~1.3A	±6%	200mV		

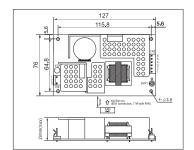
65W 2, 3 Output

- Universal AC input / Full range
- Protections: Short circuit / Overload 100% full load burn-in test / Over voltage
- Cooling by free air convection
- 12V or 24V high peak current capability 2 years warranty
- 60~65W free air convection, 77~80W with 18 CFM forced air

c**¶**us ≜ CBC€

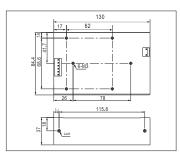


- Low leakage current < 1mA
- Optional case available (RPD/RPT-65x-C)



► With Optional Case





AC input voltage range 90~264VAC; 127~370VDC
AC inrush current
DC adjustment range
Overload protection90~125W hiccup mode, auto-recovery
Over voltage protection CH1: 115%~135% rated output voltage
Leakage currentLess than 1mA at 240VAC
Setup, rise, hold up time800ms, 20ms, 20ms at full load and 230VAC
Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, 1minute
Working temperature20~+60°C (refer to output derating curve)
Safety standardsUL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
Connection
5273-06
Packing

♦ Dual Output

· Dual Output					
Model No.	Output	Tol.	R&N	Effi.	Max.
RPD-65C□	12V, 0~5.8A	±2%	120mV	79%	60W
	5V, 0~1.5A	±5%	50mV		
RPD-65D□	24V, 0~2.9A	±2%	150mV	81%	60W
	5V 0~15A	+5%	50mV		

0.47kg; 32pcs / 16kg / 0.64CUFT (Enclosed type)

* Triple Output

· Impic Outpu					
Model No.	Output	Tol.	R&N	Effi.	Max.
RPT-65E□	12V, 0.18~5.8A	±2%	120mV	77%	63W
	5V, 0.0~1.5A	±5%	100mV		
	-5V, 0.0~0.7A	±5%	120mV		
RPT-65F□	12V, 0.18~5.8A	±2%	150mV	77%	66W
	5V, 0.0~1.5A	±5%	100mV		
	-12V, 0.0~0.7A	±5%	150mV		
RPT-65G□	24V, 0.09~2.9A	±2%	150mV	81%	66W
	5V, 0.0~1.5A	±5%	50mV		
	12V, 0.0~0.7A	±5%	100mV		
□= blank, -	C; blank: PCB Typ	e, -C: Er	iclosed Type		

Open Frame

110~125W Single, Dual and Triple Output



110W Dual Output

- · Universal AC input / Full range
- Power good signal output (option)
- Protections: Short circuit / Overload
 Low leakage current <1mA@ 240VAC / Over voltage
- · Cooling by free air convection
- · 100% full load burn-in test

 - · 2 years warranty



AC input voltage range 100~264VAC; 141~370VDC
AC inrush currentCold start, 45A at 230VAC
DC adjustment rangeCH1: -5%~+10% rated output voltage
Overload protection105%~135% hiccup mode, auto-recovery
Over voltage protectionCH1: 115%~135% rated output voltage
Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
Working temperature10~+60°C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,11
Connection5+12P/ 3.96mm pitch, Molex: 5273-05,12
Packing 0.51kg ; 24pcs / 13.1kg / 1.19CUFT

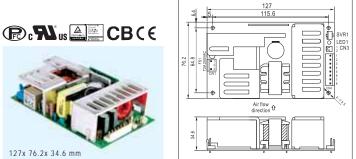
Model No.	Output	Tol.	R&N	Effi.	Max.
PD-110A	5V, 0.5~5.0A	±2%	100mV	75%	103W
	12V, 0.5~6.5A	±6%	150mV		
PD-110B	5V, 0.5~5.0A	±2%	100mV	78%	109W
	24V, 0.5~3.5A	±6%	200mV		

Under RCP-1600 Series Development 1600W AC-DC Rack Power • Universal AC input / Full range · Withstand 300VAC surge input for 5 seconds

- 1U low profile 41mm
- · Built-in active PFC function
- High efficiency up to 93%
- Forced air cooling by built-in DC fan with fan speed control
- Vo and Io can be trimmed by external control signal
- · Active current sharing
- Internal OR-ing FET, support hot-swap
- I²C, PMBus protocol
- Built-in remote ON-OFF control and remote sense function
- Built-in 5V/0.3A, 12V/0.8A auxiliary power
- Protection: Short circuit / Overload / Over voltage / Over temperature
- DC OK signal, OTP alarm signal
- Output models: 12V/24V/48V
- Dimension(LxWxH): 320x85x41mm
- · 3 years warranty

125W 1,3 Output with PFC Function

- Universal AC input / Full range
- Built-in active PFC function
- High power density 6.117W/in³
- Protections: Short circuit / Overload 100% full load burn-in test / Over voltage
- Built-in remote sense for PPS-125
- · LED indicator for power on
- · Free air convection for 100W and 125W with 18 CFM forced air
- · 3 years warranty



AC input voltage range90~264VAC; 127~370VDC
AC inrush currentCold start, 24A at 230VAC
DC adjustment rangeCH1: ±5% rated output voltage
Overload protection130%~160% fold back current limiting, auto-recovery
Over voltage protection CH1:110%~135% rated output voltage
Leakage current Less than 2.0mA at 240VAC
Setup, rise, hold up time 1000ms, 30ms, 24ms at full load and 230VAC
Withstand voltageI/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
Working temperature20~+70°C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standardsEN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
Connection
3+5Px2 /3.96mm pitch, JST: B3P/B5Px2-VH (PPT-125)

Packing0.37kg; 36pcs / 14.3kg / 0.79CUFT * Single Output

omg.o output				
Model No.	Output	Tol.	R&N	Effi.
PPS-125-3.3	3.3V, 0~25A	±2%	100mV	70%
PPS-125-5	5V, 0~25A	±2%	100mV	79%
PPS-125-12	12V, 0~10.5A	±2%	100mV	80%
PPS-125-13.5	13.5V, 0~9.3A	±2%	100mV	80%
PPS-125-15	15V, 0~8.4A	±2%	100mV	80%
PPS-125-24	24V, 0~5.2A	±1%	150mV	83%
PPS-125-27	27V, 0~4.6A	±1%	150mV	83%
PPS-125-48	48V. 0~2.6A	±1%	250mV	84%

* Triple Output

Tripio Gutput						
Model No.	Output	Tol.	R&N	Effi.	Max	
PPT-125A	3.3V, 1.0~12.5A	±3%	100mV	75%	99W	
	5V, 0.8~10.0A	±5%	100mV			
	12V, 0.05~0.63A	±6%	120mV			
PPT-125B	5V, 1.0~14.38A	±3%	100mV	78%	124W	
	12V, 0.3~3.75A	±5%	120mV			
	-12V, 0.05~0.63A	±6%	120mV			
PPT-125C	5V, 1.0~13.75A	±3%	100mV	78%	125W	
	15V, 0.25~3.13A	±5%	150mV			
	-15V, 0.05~0.63A	±6%	150mV			
PPT-125D	5V, 1.0~8.75A	±3%	100mV	78%	126W	
	24V, 0.25~3.13A	±5%	240mV			
	12V, 0.05~0.63A	±6%	120mV			

Open Frame 150~250W Single and Dual Output



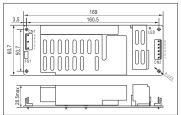
150W Single Output with PFC Function

- · Universal AC input / Full range
- · Built-in active PFC function

P: Nus CB (€ 🏈

- Protections: Short circuit / Overload / Over voltage / Over temp.
- · Cooling by free air convection
- High power density 8.4W/in³
- No load power consumption<1W
- · 100% full load burn-in test
- · 3 years warranty





AC input voltage range90~264VAC; 127~370VDC
DC adjustment range Can be modified between $\pm 10\%$ rated output
voltage by factory
Overload protection 105%~135% hiccup mode, auto-recovery
Over voltage protection110%~135% rated output voltage
Withstand voltage I/P-O/P: 4.25kVDC, I/P-FG:1.5kVAC, 1minute
Working temperature20~+60°C (refer to output derating curve)
Safety standards UL60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
Connection 5+6P/3.96mm pitch, JST P/N :B5P/B6P-VH
Packing 0.32kg ; 48pcs / 15.8kg / 0.79CUFT

Model No.	Output	Tol.	R&N	Effi.
ASP-150-12	12V, 0~11A	±2%	150mV	88%
ASP-150-15	15V, 0~9.5A	±2%	180mV	88%
ASP-150-20	20V, 0~7.5A	±1%	200mV	90%
ASP-150-24	24V, 0~6.3A	±1%	240mV	90%
ASP-150-48	48V, 0~3.2A	±1%	240mV	89%

200W Single Output with PFC Function

- · Universal AC input / Full range
- High efficiency up to 90%
- PF>0.98@115VAC; >0.93@230VAC
- Protections: Short circuit / Overload / Over voltage / Over temp.
- · High power density 9.78W/in3
- 5"x3" compact size

PPS-200-27

PPS-200-48





150mV

250mV

· ZVS technology to reduce power

· Built-in remote sense function · Free air convection for 150W and

200W with 20.5 CFM forced air

dissipation

3 years warranty

[±10% rated output voltage 105%~135% hiccup mode, auto-recovery
١	Vithstand voltage	115%~135% rated output voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute-20~+70°C (refer to output derating curve
(Safety standards	.UL60950-1, TUV EN60950-1 approved EN55022 class B, EN61000-3-2,3
		EN61000-4-2,3,4,5,6,8,11 3+8P/3.96mm pitch, JST B3P/B8P-VH
		.0.37kg ; 36pcs / 14.3kg / 0.79CUFT

r doking		оороз / 1	1.0kg / 0.770c	, ,
Model No.	Output	Tol.	R&N	Effi.
PPS-200-5	5V, 0~36.0A	±4%	100mV	86%
PPS-200-12	12V, 0~16.6A	±3%	100mV	89%
PPS-200-15	15V, 0~13.3A	±3%	100mV	89%
PPS-200-24	24V, 0~8.30A	±2%	150mV	89%

+2%

+2%

27V, 0~7.40A

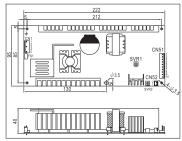
48V, 0~4.167A

250W Isolated Dual Output with PFC Function

- · Universal AC input / Full range
- · Isolated output & GND for CH1,CH2
- · Built-in active PFC function
- · Protections: Short circuit / Overload / Over voltage / Over temp.
- · Optional case available
- · Cooling by free air convection
- · Remote control function for CH1
- Peak load 170% for 10 sec. (CH1)
- · 100% full load burn-in test
- · 3 years warranty



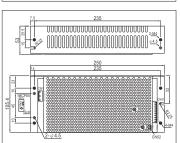








AC input voltage range90~264VAC; 127~370VDC



AC inrush current Cold start, 58A at 230VAC
Leakage current Less than 3.5mA at 240VAC
DC adjustment range ±10% for CH1; ±5% for CH2
Overload protection(CH1) 105%~170% normally operation, shut off
after 10 sec.; >180%, constant current, shut
off after 10 sec.
(CH2) 101%~150% hiccup mode, auto-recovery
Over voltage protection CH1: 115%~140%, CH2: 110%~135%
Setup, rise, hold up time1200ms, 60ms, 30ms at full load and 230VAC
Withstand voltageI/P-O/P:3.0kVAC, I/P-FG:2kVAC, 1minute
Working temperature20~+70°C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,-3
EN61000-4-2,3,4,5,6,8,11, EN61000-6-2
Connection 5+10+2P/3 96mm pitch IST B5P/B10P-VH

B2B-XH Packing 0.74kg; 18pcs / 14.3kg / 0.88CUFT (PCB type);

Model No.	Output	Tol.	R&N	Effi.
PID-250A	12V, 0~15A	±3%	120mV	83%
	5V, 0~5.0A	±2%	50mV	
PID-250B	24V, 0~9.4A	±2%	150mV	86%
	5V, 0~5.0A	±2%	50mV	
PID-250C	36V, 0~6.3A	±2%	200mV	86%
	5V, 0~5.0A	±2%	50mV	
PID-250D	48V, 0~4.7A	±2%	200mV	86%
	5V. 0~5.0A	+2%	50mV	

1.6kg; 9pcs / 15.4kg / 0.61CUFT (Enclosed type)

▶ Feature Description

PID-250 series is suitable for motor-based equipment with logic control circuit. CH1 with high peak power capability can provide the required surge loading while starting up the motor. The isolated 5V/5A CH2 is good for logic control usage and can still work properly even CH1 is malfunction or at any protection modes. The isolated design between CH1 and CH2 can significantly prevent noise of the motor action from entering control circuits and hence secure the accurate operation of the end equipment.

89%

90%

Open Frame

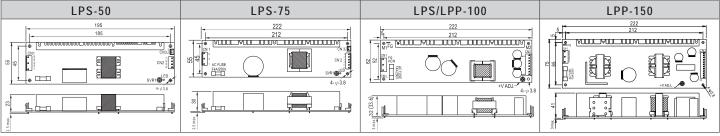
50~150W Single Output





Features

- Universal AC input / Full range
- Built-in active PFC function (LPP-100/150)
- Protections: Short circuit / Overload / Over voltage
- Optional over temperature protection for LPP-150
- Built-in remote ON/OFF control (LPS-50/75)
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty for LPS series3 years warranty for LPP series



■ General Specification (Please refer to www.meanwell.com for detail spec.)

c AL us Alus CB (
--------------------------	--

250mV

83%

Model No.		LPS-50	LPS-75	LPS-100	PS-100 LPP-100 LPP-150	
AC input volta	age range	90~264VAC		115/230 auto switch	85~264VAC	
AC inrush cui	rent (230VAC)	35A	36A	60A	30A	55A
DC adjustmer	nt range	±10% rated output voltage			-5%~+10% rated outp	out voltage
Overload	Range	122%~160%	115%~150%	105%~140%	105%~150% rated ou	tput power
protection	Туре	Hiccup mode, auto recovery			Constant current limit	ing, auto recovery
Over voltage	Range	110%~135% of rated output	voltage			
protection Type		Hiccup mode, auto recovery			Shut off, AC recycle to re-start	
Withstand vo	bitage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC(2kVAC for LPP-150), O/P-FG: 0.5kVAC, 1 minute					
Working temp	erature	-20~+70°C (refer to output d	-10~+60°C (refer to out	out derating curve)		
Safety standa	rds	UL60950-1, TUV EN60950-1	approved			
EMC standard	EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 (EN61000-6-2 heavy industry level for LPS-50/75 onl		50/75 only)			
Connection	onnection JST B5P / B4P-VH JST B5P / B6P-VH JST B5P / B8P-VH JST		JST B5P / B6Px2-VH			
Dimension (LxWxH)(mm)		195x 55x 23	222x 55x 30	222x 62x 32	222x 62x 33.6	222x 75x 41
Packing		48pcs / 12.5kg 48pcs / 15.6kg 24pcs / 12.5kg 24pcs / 13.9kg 24pcs /		24pcs / 16.6kg		

Model No. Output Tol. R&N Effi. LPS-50-3.3 3.3V, 0~10A ±3% 50mV 75% LPS-50-5 5V, 0~10A ±3% 50mV 81% LPS-50-12 12V, 0~4.2A ±2% 80mV 82% LPS-50-15 15V, 0~3.4A ±2% 80mV 84% LPS-50-24 24V, 0~2.1A ±1% 80mV 85% LPS-50-24 24V, 0~1.1A ±1% 80mV 86%	50W				LPS-50
LE 3-30-40 40 V. V~1.1A ±1/0 10010 00/0	LPS-50-3.3	3.3V, 0~10A	±3%	50mV	75%
	LPS-50-5	5V, 0~10A	±3%	50mV	81%
	LPS-50-12	12V, 0~4.2A	±2%	80mV	82%
	LPS-50-15	15V, 0~3.4A	±2%	80mV	84%

75W				LPS-75
Model No.	Output	Tol.	R&N	Effi.
LPS-75-3.3	3.3V, 0~15A	±3%	80mV	69%
LPS-75-5	5V, 0~15A	±3%	80mV	77%
LPS-75-12	12V, 0~6.2A	±2%	100mV	80%
LPS-75-15	15V, 0~5.0A	±2%	100mV	81%
LPS-75-24	24V, 0~3.2A	±2%	120mV	83%
LPS-75-48	48V, 0~1.56A	±2%	120mV	83%

100W			L	PS-100
Model No.	Output	Tol.	R&N	Effi.
LPS-100-3.3	3.3V, 0~20A	±3%	150mV	69%
LPS-100-5	5V, 0~20A	±3%	100mV	77%
LPS-100-7.5	7.5V, 0~13.3A	±2%	100mV	77%
LPS-100-12	12V, 0~8.4A	±2%	100mV	79%
LPS-100-13.5	13.5V, 0~7.5A	±2%	100mV	79%
LPS-100-15	15V, 0~6.7A	±2%	100mV	80%

LPS-100-24	24V, 0~4.2A	±1%	150mV	80%
LPS-100-27	27V, 0~3.8A	±1%	150mV	81%
LPS-100-48	48V, 0~2.1A	±1%	200mV	81%

100W (with	PFC Function)			_PP-100
Model No.	Output	Tol.	R&N	Effi.
LPP-100-3.3	3.3V, 0~20A	±2%	100mV	69%
LPP-100-5	5V, 0~20A	±2%	100mV	75%
LPP-100-7.5	7.5V, 0~13.5A	±2%	100mV	76%
LPP-100-12	12V, 0~8.5A	±2%	100mV	79%
LPP-100-13.5	13.5V, 0~7.5A	±2%	100mV	79%
LPP-100-15	15V, 0~6.7A	±2%	100mV	80%
LPP-100-24	24V, 0~4.2A	±1%	150mV	83%
LPP-100-27	27V, 0~3.8A	±1%	150mV	83%

150W (with		L	PP-150	
Model No.	Output	Tol.	R&N	Effi.
LPP-150-3.3	3.3V, 0~30A	±2%	100mV	70%

±1%

48V, 0~2.1A

LPP-150-3.3	3.3V, 0~30A	±2%	100mV	/0%	
LPP-150-5	5V, 0~30A	±2%	100mV	76%	
LPP-150-7.5	7.5V, 0~20A	±2%	100mV	80%	
LPP-150-12	12V, 0~12.5A	±2%	100mV	82%	
LPP-150-13.5	13.5V, 0~11.2A	±2%	100mV	83%	
LPP-150-15	15V, 0~10A	±2%	100mV	83%	
LPP-150-24	24V, 0~6.3A	±1%	150mV	85%	
LPP-150-27	27V, 0~5.6A	±1%	150mV	85%	
LPP-150-48	48V, 0~3.2A	±1%	250mV	85%	

LPP-100-48

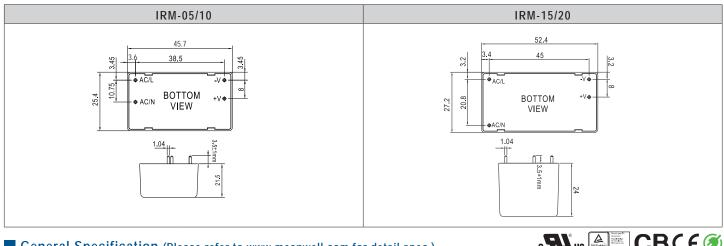
Green Open Frame 5~20W AC/DC Miniature Encapsulated Type





Features

- Universal AC input / Full range
- No load power consumption < 0.1W
- Miniature size, high power density
- Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- Isolation class II
- Fully isolated plastic case
- · Withstand 5G vibration test
- · Low cost, high reliability
- 100% full load burn-in test
- 3 years warranty



General Specification (Please refer to www meanwell com for detail spec.)

General Specificat	ION (Please refer to www.m	neanwell.com for detail spec	c 71-	US TOTAL CDCE		
Model No.	IRM-05	IRM-10	IRM-15	IRM-20		
AC input voltage range	85~264VAC; 120~370VDC					
AC inrush current (max.)	Cold start, 20A at 115VAC, 4	old start, 20A at 115VAC, 40A at 230VAC				
Overload protection	115%~260%	115%~190%		115%~160%		
Over voltage protection	115%~135% rated output vol	115%~135% rated output voltage				
Setup, rise, hold up time	600ms, 30ms, 80ms	600ms, 30ms, 30ms	1000ms, 20ms, 40ms			
Leakage current	Less than 0.25mA at 240VAC					
Withstand voltage	I/P-O/P: 3kVAC					
Working temperature	-30~+70°C (refer to output d	lerating curve)				
Vibration	10~500Hz, 5G 10min./1 cycl	e, period for 60 min. each along	g X, Y, Z axes			
Safety standards	UL60950-1, TUV EN60950-1	approved				
EMC standards	EN55022 class B, EN61000-	3-2,3, EN61000-4-2,3,4,5,6,8,1	1			
Connection	4 industrial pins					
Dimension (LxWxH)(mm)	45.7x 25.4x 21.5		52.4x 27.2x 24			

ļ	5 W				IRM-05
	Model No.	Output	Tol.	R&N	Effi.
	IRM-05-3.3	3.3V, 0~1.25A	±2.5%	200mV	68%
	IRM-05-5	5V, 0~1A	±2.5%	200mV	71%
	IRM-05-12	12V, 0~0.42A	±2.5%	200mV	75%
	IRM-05-15	15V, 0~0.33A	±2.5%	200mV	75%
	IRM-05-24	24V, 0~0.23A	±2.5%	200mV	77%
İ	10W				IRM-10

	11(101-03-13	13V, 0~0.33A	±2.570	2001111	1 3 70
	IRM-05-24	24V, 0~0.23A	±2.5%	200mV	77%
ļ	10W				IRM-10
	Model No.	Output	Tol.	R&N	Effi.
	IRM-10-3.3	3.3V, 0~2.5A	±2.5%	200mV	74%
	IRM-10-5	5V, 0~2A	±2.5%	200mV	77%
	IRM-10-12	12V, 0~0.85A	±2.5%	200mV	82%
	IRM-10-15	15V, 0~0.67A	±2.5%	200mV	82%
	IRM-10-24	24V, 0~0.42A	±2.5%	200mV	82%

15W				IRM-15
Model No.	Output	Tol.	R&N	Effi.
IRM-15-3.3	3.3V, 0~3.5A	±2.5%	200mV	74%
IRM-15-5	5V, 0~3A	±2.5%	200mV	78%
IRM-15-12	12V, 0~1.25A	±2.5%	200mV	82%
IRM-15-15	15V, 0~1A	±2.5%	200mV	82%
IRM-15-24	24V, 0~0.63A	±2.5%	200mV	83%
20W				IRM-20
20W Model No.	Output	Tol.	R&N	IRM-20 Effi.
	Output 3.3V, 0~4.5A	Tol. ±2.5%	R&N 200mV	
Model No.	•			Effi.
Model No. IRM-20-3.3	3.3V, 0~4.5A	±2.5%	200mV	Effi . 76%
Model No. IRM-20-3.3 IRM-20-5	3.3V, 0~4.5A 5V, 0~4A	±2.5% ±2.5%	200mV 200mV	Effi. 76% 79%

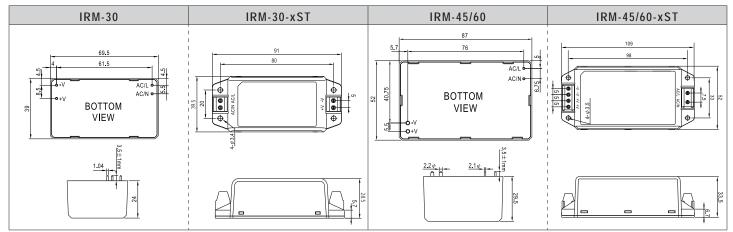
Green Open Frame 30~60W AC/DC Miniature Encapsulated Type MEAN W



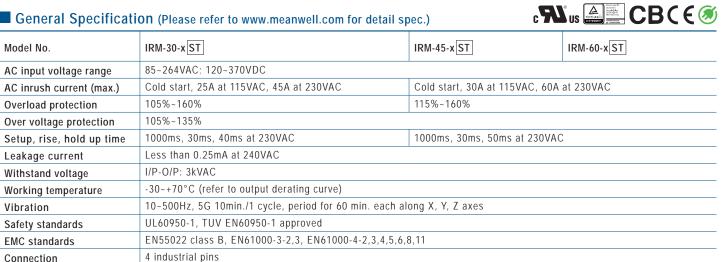


Features

- Universal AC input / Full range
- No load power consumption < 0.1W
- Miniature size, high power density
- Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- Pass LPS (except for IRM-45/60 5V)
- Isolation class II
- Fully isolated plastic case
- · Withstand 5G vibration test
- Screw terminal I/O connection models for ST type
- · Low cost, high reliability
- 100% full load burn-in test
- 3 years warranty



General Specification (Please refer to www.meanwell.com for detail spec.)



PCB mounting: 69.5x 39x 24; Screw I/O: 91x 39.5x 28.5 PCB mounting: 87x 52x 29.5; Screw I/O: 109x 52x 33.5

■ IRM-30 Serie	S			NEW
Model No.	Output	Tol.	R&N	Effi.
IRM-30-5□	5V, 0~6A	±2.5%	120mV	83%
IRM-30-12□	12V, 0~2.5A	±2.5%	150mV	88%
IRM-30-15□	15V, 0~2A	±2.5%	200mV	88%
IRM-30-24□	24V, 0~1.3A	±2.5%	240mV	88.5%
IRM-30-48□	48V, 0~0.63A	±2.5%	300mV	90%
□ = Blank, ST; B	lank: PCB mounting	style, ST: S	crew termin	nal style

Dimension (LxWxH)(mm)

IRM-45 Seri	es			NEW
Model No.	Output	Tol.	R&N	Effi.
IRM-45-5□	5V, 0~8A	±2.5%	80mV	83.5%
IRM-45-12□	12V, 0~3.8A	±2.5%	150mV	87.5%
IRM-45-15□	15V, 0~3A	±2.5%	180mV	88.5%
\square = Blank, ST;	Blank: PCB mounting	style, ST: S	crew termin	nal style

Model No.	Output	Tol.	R&N	Effi.
IRM-45-24□	24V, 0~1.9A	±2.5%	200mV	89.5%
IRM-45-48□	48V, 0~0.94A	±2.5%	300mV	90.5%
□ = Blank, ST; E	Blank: PCB mounting	style, ST: S	crew termin	nal style

IRM-60 Serie	es			NEW
Model No.	Output	Tol.	R&N	Effi.
IRM-60-5□	5V, 0~10A	±2.5%	80mV	84%
IRM-60-12□	12V, 0~5A	±2.5%	120mV	87.5%
IRM-60-15□	15V, 0~4A	±2.5%	120mV	89%
IRM-60-24□	24V, 0~2.5A	±2.5%	150mV	90%
IRM-60-48□	48V, 0~1.25A	±2.5%	240mV	91%
□ = Blank, ST;	Blank: PCB mounting	style, ST: S	Screw termin	nal style

Green Open Frame 15~65W Single Output



A CRCCC

84%

86% 87%

88%

89%

90%

 $\pm 2\%$

±2%

±2%

±1%

 $\pm\,1\%$

±1%

100mV

120mV

150mV

240mV

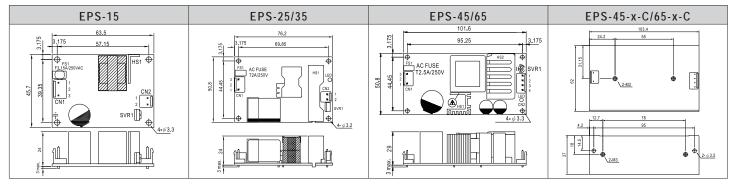
280mV

300mV



Features

- Universal AC input / Full range
- No load power consumption < 0.3W
- High efficiency up to 90%
- Compact size
- Cooling by free air convection
- Protections: Short circuit / Overload / Over voltage
- Case available (EPS-45-x-C & EPS-65-x-C)
- LED indicator for power on (except for EPS-15)
- 3 years warranty



Conoral Specification (Please refer to www meanwell com for detail spec.)

General Specification (Please refer to www.meanwell.com for detail spec.)				US TOPPORTURE TO	CDCC	
Model No.		EPS-15	EPS-25	EPS-35	EPS-45-x(-C)	EPS-65-x(-C)
AC input volt	age range	85~264VAC; 120~370VDC			90~264VAC; 127~37	OVDC
AC inrush cui	rrent (max.)	Cold start, 45A at 230VAC	Cold start, 35A at 230VAC	Cold start, 40A at 230VAC	Cold start, 60A at 23	OVAC
DC adjustmer	nt range	±10% rated output voltage				
Overload	Range	115%~150% rated output power	115%~170% rated output po	ower	115%~160% rated o	utput power
protection	Туре	Hiccup mode, auto recovery				
Over voltage	protection	110%~135%	110%~140%		110%~135%	
Withstand vo	Itage	I/P-O/P: 3kVAC, I/P-FG:2kVAC, (D/P-FG: 0.5kVAC, 1 minute			
Working temp	erature	-30~+70°C (refer to output derat	ing curve)			
Safety standa	rds	UL60950-1, TUV EN60950-1 app	roved			
EMC standard	ls	EN55022 class B, EN61000-3-2,3	3, EN61000-4-2,3,4,5,6,8,1	1		
Connection		3+2P/3.96mm pitch, JST B3P/B2	P-VH		3+4P/3.96mm pitch, JST B3P/B4P-VH	
Dimension (L	xWxH)(mm)	63.5x45.7x24	76.2x50.8x24		PCB: 101.6x50.8x29	; Case: 103.4x62x37

■ 15W			El	PS-15
Model No. EPS-15-3.3 EPS-15-5 EPS-15-7.5 EPS-15-12 EPS-15-15 EPS-15-24 EPS-15-27 EPS-15-36	Output(Rated / Peak 10 sec.) 3.3V, 0-3A / 3.3A 5V, 0-3A / 3.3A 7.5V, 0-2A / 2.2A 12V, 0-1.25A / 1.38A 15V, 0-1A / 1.1A 24V, 0-0.625A / 0.69A 27V, 0-0.56A / 0.615A 36V, 0-0.42A / 0.46A	Tol. ±2% ±2% ±1% ±1% ±1% ±1%	R&N 50mV 50mV 80mV 100mV 150mV 180mV 200mV	Effi. 75% 78% 81% 82% 83% 84% 85%
EPS-15-48	48V, 0~0.313A / 0.344A	±1%	200mV	85% PS-25
Model No. EPS-25-3.3 EPS-25-5 EPS-25-7.5 EPS-25-12 EPS-25-15 EPS-25-24 EPS-25-27 EPS-25-36 EPS-25-48	Output(Rated / Peak 10 sec.) 3.3V, 0-5A / 5.5A 5V, 0-5A / 5.5A 7.5V, 0-3.4A / 3.74A 12V, 0-2.1A / 2.34A 15V, 0-1.7A / 1.87A 24V, 0-1.05A / 1.17A 27V, 0-0.95A / 1.05A 36V, 0-0.7A / 0.78A 48V, 0-0.53A / 0.59A	Tol. ±2% ±2% ±1% ±1% ±1% ±1% ±1%	R&N 60mV 60mV 80mV 100mV 100mV 180mV 200mV 240mV	Effi. 79% 81% 83% 86% 87% 88% 89% 90%
35W			El	PS-35
Model No. EPS-35-3.3 EPS-35-5 EPS-35-7.5 EPS-35-12 EPS-35-15	Output(Rated / Peak 10 sec.) 3.3V, 0~6A / 6.6A 5V, 0~6A / 6.6A 7.5V, 0~4.7A / 5.2A 12V, 0~3A / 3.3A 15V, 0~2.4A / 2.65A	Tol. ±2.5% ±2.0% ±2.0% ±1.0% ±1.0%	R&N 60mV 70mV 80mV 100mV	Effi. 80% 82% 84% 87% 88%

Model No. EPS-35-24 EPS-35-27 EPS-35-36 EPS-35-48	Output(Rated / Peak 10 sec.) 24V, 0~1.5A / 1.65A 27V, 0~1.3A / 1.45A 36V, 0~1A / 1.1A 48V, 0~0.75A / 0.82A	Tol. ±1% ±1% ±1% ±1%	R&N 180mV 180mV 200mV 240mV	Effi. 89% 89% 89% 90%
45W	,			PS-45
Model No. EPS-45-3.3 ☐ EPS-45-5 ☐ EPS-45-7.5 ☐ EPS-45-15 ☐ EPS-45-24 ☐ EPS-45-36 ☐ EPS-45-48 ☐ □= blank, -C ;	Output(Rated / Peak 10 sec.) 3.3V, 0~8A / 9A 5V, 0~8A / 9A 7.5V, 0~5.4A / 6A 12V, 0~3.75A / 4.2A 15V, 0~3A / 3.3A 24V, 0~1.9A / 2.1A 36V, 0~1.25A / 1.4A 48V, 0~1A / 1.1A blank: PCB type, -C: Enclosed t	Tol. ±3% ±2% ±2% ±1% ±1% ±1%	R&N 80mV 80mV 100mV 120mV 150mV 240mV 280mV 300mV	Effi. 80% 82% 84% 87% 88% 89% 90%
65W	31 .	,	EI	PS-65
Model No. EPS-65-3.3□ EPS-65-5□	Output(Rated / Peak 10 sec.) 3.3V, 0~11A / 12A 5V, 0~11A / 12A	Tol. ±3% ±2%	R&N 80mV 80mV	Effi. 80% 82%

7.5V, 0~8A / 8.8A

12V, 0~5.42A / 6A

15V, 0~4.34A / 4.8A

24V, 0~2.71A / 3A

36V, 0~1.81A / 2A

□= blank, -C; blank: PCB type, -C: Enclosed type

48V, 0~1.36A / 1.5A

EPS-65-7.5

EPS-65-12

EPS-65-15

EPS-65-24

EPS-65-36□

EPS-65-48

Green Open Frame 75~300W Single Output



75W Single Output with PFC Function

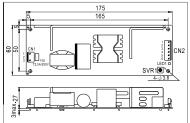
- Universal AC input / Full rangeBuilt-in active PFC function
- No load power consumption <0.5W High efficiency up to 90%
- Cooling by free air convection





- LED indicator for power on
- 1U low profile
- 3 years warranty





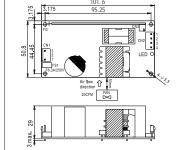
AC input voltage range 90-264VAC; 127-370VDC AC inrush current	AC input voltage range 00.344/AC: 127.270/DC
Safety standards UL60905-1, TUV EN60950-1 approved	AC inrush current
	Working temperature30~+70°C (refer to output derating curve)

Model No.	Output	Tol.	R&N	Effi.
ELP-75-3.3□	3.3V, 0~15A	±3%	80mV	80%
ELP-75-5□	5V, 0~15A	±2%	80mV	82%
ELP-75-12□	12V, 0~6.25A	±2%	120mV	89%
ELP-75-15□	15V, 0~5A	±2%	150mV	90%
ELP-75-24□	24V, 0~3.15A	±1%	240mV	90%
ELP-75-36□	36V, 0~2.1A	±1%	280mV	90%
ELP-75-48□	48V, 0~1.6A	±1%	300mV	90%
\square = blank, -C ;	blank: PCB type, -C:	Enclosed typ	ре	

100W Single Output with PFC Function

- 4"x 2" compact size
- Universal AC input / Full range
- Built-in active PFC function
- No load power consumption < 0.5W
- High efficiency up to 92.5%
- Free air convection for 75W and 100W with 20 CFM forced air
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- 12V/0.3A auxiliary output
- LED indicator for power on
 - 3 years warranty





AC input voltage range	90~264VAC; 127~370VDC
DC adjustment range	2%~+5% rated output voltage
Overload protection	105%~145% hiccup mode, auto-recovery
Over voltage protection	115%~135% rated output voltage
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature	30~+70°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3,
	EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
EPP-100-12	12V, 0~8.5A	±2%	120mV	91.0%
EPP-100-15	15V, 0~6.67A	±2%	150mV	91.0%
EPP-100-24	24V, 0~4.2A	±1%	240mV	92.0%
EPP-100-27	27V, 0~3.71A	±1%	240mV	92.5%
FPP-100-48	18V 0~2 1∆	+1%	300m\/	92.5%

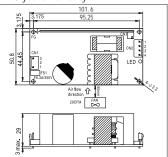
150W Single Output with PFC Function

- 4"x 2" compact size
- Universal AC input / Full range
- Built-in active PFC function
- No load power consumption < 0.5W
- High efficiency up to 93%
- Free air convection for 100W and 150W with 20 CFM forced air





- Protections: Short circuit / Overload / Over voltage / Over temperature
- 12V/0.3A auxiliary output
- High power density 16.42W/in³
- LED indicator for power on
- 3 years warranty



	, ω [†]
ı	AC input voltage range90~264VAC; 127~370VDC
-	DC adjustment range2%~+5% rated output voltage
(Overload protection105%~145% hiccup mode, auto-recovery
(Over voltage protection115%~135% rated output voltage
١	Withstand voltageI/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
١	Norking temperature30~+70°C (refer to output derating curve)
,	Safety standardsUL60950-1, TUV EN60950-1 approved
ı	EMC standardsEN55022 class B, EN61000-3-2,3,
	EN61000-4-2,3,4,5,6,8,11
(Connection3+4P / 3.96mm pitch, JST B3P / B4P-VH

JIIIIectioii						
Model No.	Output	Tol.	R&N	Effi.		
EPP-150-12	12V, 0~12.5A	±2%	130mV	91.5%		
EPP-150-15	15V, 0~10.0A	±2%	150mV	92.0%		
EPP-150-24	24V, 0~6.25A	±1%	240mV	93.0%		
EPP-150-27	27V, 0~5.56A	±1%	240mV	92.0%		
EPP-150-48	48V. 0~3.125A	±1%	300mV	92.0%		

300W Single Output with PFC Function

- 5"x 3" compact size
- Universal AC input / Full range
- Built-in active PFC function
- No load power consumption < 0.5W by PS-ON control
- High efficiency up to 93%
- Free air convection for 200W and 300W with 20.5 CFM forced air
- Protections:

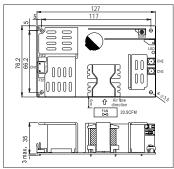
Short circuit / Overload / Over voltage / Over temperature





•	Withstand	300VAC	surge	input	for
	5 seconds				

- 12V/0.5A auxiliary output
- Standby 5V@1A
- Built-in remote sense function
- High power density 14.5W/in³
- LED indicator for power on
- 3 years warranty



12/X /0.2X 33 IIIII	69
AC input voltage range 90~264	VAC; 127~370VDC
DC adjustment range ±5% ra	ted output voltage
Overload protection 105%~	135% hiccup mode, auto-recovery
Over voltage protection 115%~1	135% rated output voltage
Withstand voltageI/P-O/P:	3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature30~+70	O°C (refer to output derating curve)
Safety standards UL6095	0-1, TUV EN60950-1 approved
EMC standards EN5502	22 conduction class B, radiation class A,
EN6100	00-3-2,3, EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
EPP-300-12	12V, 0~25.0A	±3%	120mV	90.0%
EPP-300-15	15V, 0~20.0A	±3%	120mV	90.0%
EPP-300-24	24V, 0~12.5A	±2%	150mV	92.5%
EPP-300-27	27V, 0~11.12A	±2%	200mV	93.0%
EPP-300-48	48V, 0~6.25A	±2%	250mV	93.0%

Industrial Adaptor 12~24W Interchangeable Type

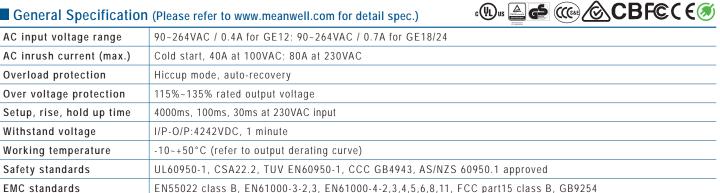




Features

- Interchangeable AC plugs (plug kit sold separately)
- Universal AC input / Full range
- No load power consumption < 0.3W
- Energy efficiency Level V
- Comply with EISA 2007 and EU ErP
- Class II power (without earth pin)
- Protections: Short circuit / Over voltage / Overload
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS
- Approvals: UL / CUL / TUV / CCC / RCM / CB / FCC / CE
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



150cm of AWM2468, 20AWG for GE12; 150cm of AWM2468, 18AWG for GE18/24 P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 57 for DC plug list)

■ Wall-mounted (Interchangeable Type)—12W

Length of output cable

Standard DC plug

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE12I05-P1J	5V, 0~2.00A	±5%	50mV	74%
GE12I07-P1J	7.5V, 0~1.33A	±5%	75mV	77%
GE12I09-P1J	9V, 0~1.33A	±5%	100mV	79%
GE12I12-P1J	12V, 0~1.00A	±3%	120mV	81%
GE12I15-P1J	15V, 0~0.80A	±3%	150mV	82%
GE12I18-P1J	18V, 0~0.83A	±3%	180mV	83%
GE12I24-P1J	24V, 0~0.625A	±3%	240mV	83%

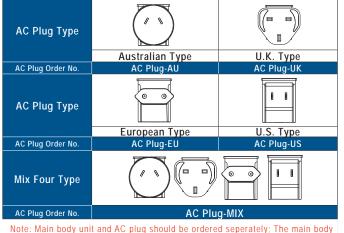
■ Wall-mounted (Interchangeable Type)—18W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE18I05-P1J	5V, 0~2.40A	±5%	50mV	75%
GE18I07-P1J	7.5V, 0~1.73A	±5%	75mV	79%
GE18I09-P1J	9V, 0~2.00A	±5%	100mV	81%
GE18I12-P1J	12V, 0~1.50A	±3%	120mV	82%
GE18I15-P1J	15V, 0~1.20A	±3%	150mV	84%
GE18I18-P1J	18V, 0~1.00A	±3%	180mV	84%
GE18I24-P1J	24V, 0~0.75A	±3%	240mV	85%
GE18I48-P1J	48V, 0~0.375A	±3%	300mV	85%

■ Wall-mounted (Interchangeable Type)—24W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE24I05-P1J	5V, 0~3.00A	±5%	50mV	76.5%
GE24I07-P1J	7.5V, 0~2.00A	±5%	75mV	79.5%
GE24I09-P1J	9V, 0~2.22A	±5%	100mV	81.5%
GE24I12-P1J	12V, 0~2.00A	±3%	120mV	82.5%
GE24I15-P1J	15V, 0~1.60A	±3%	150mV	84.0%
GE24I18-P1J	18V, 0~1.33A	±3%	180mV	84.0%
GE24I24-P1J	24V, 0~1.00A	±3%	240mV	85.0%
GE24I48-P1J	48V, 0~0.50A	±3%	300mV	85.0%

▶ Interchangeable AC Plug Specifically for GE12/18/24



Industrial Adaptor

5~15W Single Output



6W Green Adaptor

- Universal AC input / Full range
- No load power consumption < 0.3W

- Energy efficiency Level V
 Comply with EISA 2007 and EU ErP
 2 pole US / European type plug
 Class II power (without earth pin)
- Protections: Short circuit / Overload /

Over voltage ·(N)·· CBF©(€Ø)





Fully enclosed plastic case

Approvals: UL/CUL/CB/FCC/CE for GS06U TUV/CB/FCC/CE for GS06E

2 years warranty





AC input voltage range 90~264VAC; 127~370VDC AC inrush current(max.) .. Cold start, 50A at 230VAC Overload protection Hiccup mode, auto-recovery Over voltage protection ... Clamp by zener diode >120%

Safety standardsUL60950-1, CSA 22.2, TUV EN60950-1

EMC standards EN55022, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11, FCC part 15 class B Length of output cable180cm of UL1185, 20AWG

Order No.	Output	Tol.	R&N	Effi.	
GS06□-1P1J	5V, 0~1.00A	±5%	50mV	68%	
GS06□-11P1J	7.5V, 0~0.80A	±5%	80mV	74%	
GS06□-2P1J	9V, 0~0.66A	±5%	80mV	75%	
GS06□-3P1J	12V, 0~0.50A	±3%	100mV	77%	
GS06□-4P1J	15V, 0~0.40A	±3%	120mV	78%	
GS06□-5P1J	18V, 0~0.33A	±3%	150mV	78%	
GS06□-6P1J	24V, 0~0.25A	±2%	180mV	82%	
GS06□-8P1J	48V, 0~0.125A	±2%	200mV	84%	

□ = U/E; U: American 2P, E: European 2P

12W Green Adaptor

- Universal AC input / Full range No load power consumption < 0.3W Energy efficiency Level V
- Comply with EISA 2007 and EU ErP 2 pole US / European type plug Class II power (without earth pin)

- Protections: Short circuit / Overload / Over voltage / Over temp.
- Pass LPSFully enclosed plastic case
- Approvals:
- UL/CUL/BSMI/CB/FCC for GS12U TUV/CB/CE for GS12E
- · 2 years warranty

CB F© Ø







AC input voltage range 90~264VAC; 127~370VDC AC inrush current(max.) .. Cold start, 45A at 230VAC Overload protection Hiccup mode, auto-recovery Over voltage protection ... 115%~135% clamp by zener diode Withstand voltage I/P-O/P: 3kVAC, 1minute
Working temperature 0~+50°C (refer to output derating curve) Safety standards UL60950-1, CSA 22.2, BSMI CNS14336, TUV EN60950-1 EMC standards EN55022, EN61204-3, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part15 class B

Order No.	Output	Tol.	R&N	Effi.
GS12□ 05-P1I	5V, 0~2.00A	±5%	75mV	76.0%
GS12□ 07-P1I	7.5V, 0~1.60A	±4%	90mV	78.5%
GS12□ 09-P1I	9V, 0~1.33A	±4%	90mV	78.5%
GS12□12-P1I	12V, 0~1.00A	±3%	120mV	78.5%
GS12□ 15-P1I	15V, 0~0.80A	±3%	150mV	80.0%
GS12□ 18-P1I	18V, 0~0.67A	±3%	180mV	80.0%
GS12□ 24-P1I	24V, 0~0.50A	±3%	200mV	80.5%
□ = U/E ; U: Am	erican 2P, E: Europ	ean 2P		

5W Green USB Adaptor



GS05E-USB

41.54x 30.5x 20 mm

- · Universal AC input / Full range
- No load power consumption < 0.3W
- · Energy efficiency Level V
- · Comply with EISA 2007 and EU ErP
- · Compact size
- 2 pole US / European type plug
- · Class II power (without earth pin)
- · Protections: Short circuit / Overload Over voltage / Over temp.
- · Fully enclosed plastic case
- · 2 years warranty

AC input voltage range	90~264VAC ; 127~370VDC
Overload protection	105%~135% rated output power, hiccup mode,
·	auto-recovery
Over voltage protection	105%~200% rated output voltage, hiccup mode,
	auto-recovery
Withstand voltage	I/P-O/P: 4242VDC, 1 minute
Working temperature	-20~+50°C (refer to output derating curve)
	U-Type: UL60950-1, CSA22.2 approved
	E-Type: TUV EN60950-1 approved
FMC standards	ECC part15 class B(II Type): EN55022 class B(F Type)

Order No.	Output	Tol.	R&N	Effi.
GS05U-USB	5V, 0~1A	±4%	90mV	69%
GS05E-USB	5V, 0~1A	±4%	80mV	71%

15W Green Adaptor

- Universal AC input / Full range
- No load power consumption < 0.3W
- · Energy efficiency Level V
- Comply with EISA 2007 and EU ErP Approvals:

c (L) us

■ CB F C C E (M)

Standard DC plug USB Type A

• Pass LPS

- · Protections:
 - Short circuit / Overload / Over voltage
- · Fully enclosed plastic case
- UL/CUL/TUV/CB/FCC/CE for GS15A/B TUV/CB/FCC/CE for GS15E UL/CUL/CB/FCC/CE for GS15U
- · 2 years warranty



AC inrush current(max.) Overload protection Over voltage protection Withstand voltage	90~264VAC; 127~370VDC Cold start, 50A at 230VAC Hiccup mode, auto-recovery Clamp by zener diode > 120% I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute 0~+50°C (refer to output derating curve)
Safety standards	UL60950-1, CSA 22.2, TUV EN60950-1 approved EN55022-B, EN61000-3-2,3,
	EN61000-4-2,3,4,5,6,11,FCC part 15 class B 180cm of UL1185, 18AWG
Standard DC plug	P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 57 for DC plug list)

Order No.	Output	Tol.	R&N	Effi.	
GS15□-1P1J	5.0V, 0~2.40A	±5%	50mV	75%	
GS15□-11P1J	7.5V, 0~1.60A	±5%	80mV	78%	
GS15□-2P1J	9.0V, 0~1.66A	±5%	80mV	80%	
GS15□-3P1J	12V, 0~1.25A	±3%	80mV	80%	
GS15□-4P1J	15V, 0~1.00A	±3%	100mV	80%	
GS15□-5P1J	18V, 0~0.83A	±3%	120mV	81%	
GS15□-6P1J	24V, 0~0.62A	±2%	150mV	83%	
GS15□-8P1J	48V, 0~0.31A	±2%	240mV	85%	
$\square = A/B/E/U ; A:$	IEC320-C14, B: IE	C320-C8			

E: European 2P, U: American 2P

Industrial Adaptor 18~36W Single Output









GS18/25B 79x 54x 33 mm



GS18/25/36U



GS18/25/36E 79x 54x 33 mm

79x 54x 33 mm

Features

- Universal AC input / Full range
- No load power consumption < 0.3W
- Energy efficiency Level V
- Comply with EISA 2007, NRCan, AU/NZ MEPS and EU ErP
- 2 pole USA / EURO plug or IEC320-C14/C8
- Class II power (without earth pin) for B/U/E type Class I power (with earth pin) only for A type
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case

- LED indicator for power on (except for GS36)
- Pass LPS
- · Approvals:

A type: UL / CUL / TUV / BSMI / CCC / PSE / CB / FCC / CE

B type: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE

U type: UL / CUL / BSMI / CB / FCC

E type: TUV / CB / CE

• 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Order No.		GS18	GS25	GS36	
AC input voltag	e range	90~264VAC; 135~370VDC			
AC inrush curre	nt (max.)	Cold start, 45A at 230VAC		Cold start, 60A at 230VAC	
Overload	Range	105%~150% rated output power		110%~250% rated output power	
protection	Type	Hiccup mode, auto-recovery			
Over voltage pr	otection	105%~135% rated output voltage,	clamp by zener diode		
Withstand volta	ge	I/P-O/P: 4242VDC, 1 minute			
Working temper	ature	0~+50°C (refer to output derating curve)		-20~+50°C (refer to output derating curve)	
Safety standards		A-Type: UL60950-1, CSA 22.2, TUV EN60950-1, BSMI CNS14336, PSE J60950-1(GS18A/GS25A-5V~28V only), CCC GB4943 approved B-Type: UL60950-1, CSA 22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved U-Type: UL60950-1, CSA22.2, BSMI CNS14336 approved E-Type: TUV EN60950-1 approved			
EMC standards Length of output cable		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11(A/B/E type); FCC part 15 class B, CNS13438(A/B/U type); GB9254(A/B type)			
		120cm of 16AWG for 5~12V; 180cm of UL1185, 18AWG for 15~	48V	100cm of UL1185, 16AWG	
Standard DC plu	ng	P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 57 for DC plug list)			

Desktop / Wall-mounted — 18W

•				
Order No.	Output	Tol.	R&N	Effi.
GS18□05-P1J	5V, 0~3.00A	±5%	50mV	79.5%
GS18□07-P1J	7.5V, 0~2.00A	±5%	80mV	82.0%
GS18□09-P1J	9V, 0~2.00A	±5%	80mV	83.0%
GS18□12-P1J	12V, 0~1.50A	±3%	80mV	85.0%
GS18□15-P1J	15V, 0~1.20A	±3%	100mV	85.0%
GS18□18-P1J	18V, 0~1.00A	±3%	150mV	85.0%

	C(VL)us Control Contro		CRH	C(F	
Order No.	Output	Tol.	R&N	Effi.	
	241/ 0 0 754	20/	1001/	0/ 00/	

c(!) us △ ← △ □ ← CBF©(€ Ø

GS18□24-P1 J 24V. 0~0.75A ±2% 180mV 86.0% 86.5% GS18□28-P1J 28V, 0~0.64A ±2% 240mV 240mV 87.0% GS18□48-P1J 48V, 0~0.375A ±2%

 $\square = A / B / U / E$

Class I — A: IEC320-C14

Class II — B: IEC320-C8, U: American 2P, E: European 2P

Desktop / Wall-mounted — 25W

Order No.	Output	Tol.	R&N	Effi.
GS25□05-P1J	5V, 0~4.00A	±5%	50mV	78.5%
GS25□07-P1J	7.5V, 0~2.93A	±5%	80mV	81.5%
GS25□09-P1J	9V, 0~2.77A	±5%	80mV	82.5%
GS25□12-P1J	12V, 0~2.08A	±3%	80mV	84.5%
GS25□15-P1J	15V, 0~1.66A	±3%	100mV	84.5%
GS25□18-P1J	18V, 0~1.38A	±3%	150mV	84.5%

	SHANA SIT		<u> </u>	
Order No.	Output	Tol.	R&N	Effi.
GS25□24-P1J	24V, 0~1.04A	±2%	180mV	85.5%
GS25□28-P1J	28V, 0~0.89A	±2%	240mV	85.5%
GS25□48-P1J	48V, 0~0.52A	±2%	240mV	87.0%

 $\square = A / B / U / E$

Class I — A: IEC320-C14

Class II — B: IEC320-C8, U: American 2P, E: European 2P

■ Wall-mounted — 36W

Order No.	Output	Tol.	R&N	Effi.
GS36□05-P1J	5V, 0~4.50A	±5%	90mV	76.5%
GS36□09-P1J	9V, 0~3.50A	±5%	90mV	81.5%
GS36□12-P1J	12V, 0~3.00A	±3%	100mV	84.5%

	ere build in manager			
Order No.	Output	Tol.	R&N	Effi.
GS36□24-P1J	24V, 0~1.50A	±2%	180mV	85.5%
GS36□48-P1J	48V, 0~0.75A	±2%	240mV	87.5%
□ =U / E : U: Ar	merican 2P. E: Europe	ean 2P		

Industrial Adaptor

40~120W Single Output





Features

- Universal AC input / Full range
- No load power consumption <0.3W for GS40/60;
 <0.5W for GS90/120
- Energy efficiency Level V
- Comply with EISA 2007, NRCan, AU/NZ MEPS and EU ErP
- Built-in active PFC function for GS90/120
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Over voltage / Overload / Over temp. (except for GS40)
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS (except for GS120)
- 2 years warranty

General Specification



Order No.		GS40A	GS60A	GS90A	GS120A	
AC input voltage	range	90~264VAC ; 127~37	OVDC		85~264VAC; 120~370VDC	
AC inrush curren	ıt (max.)	Cold start, 65A at 23	OVAC	Cold start, 70A at 230VAC		
Overload	Range	105%~150% rated or	utput power	110%~150%	105%~160%	
protection	Туре	Hiccup mode, auto-r	ecovery			
Over voltage pro	tection	105%~135% rated or	utput voltage			
Setup, rise, hold	up time	1000ms, 30ms, 50ms	at 230VAC input	1000ms, 20ms, 20ms at 230VAC input	2000ms, 30ms, 20ms at 230VAC input	
Withstand voltage		I/P-O/P:3kVAC, I/P-F	G: 2kVAC, O/P-FG	: 0.5kVAC	I/P-FG: 3kVAC	
Working temperature		-30~+60°C		-30~+50°C	-30~+70°C	
Safety standards		UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1(except for 48V) approved				
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, CNS13438, GB9254, FCC part15 class B				
Length of output cable		GS40: 100cm of UL1185, 10 180cm of UL1185, 18 GS60: 100cm of UL2464, 10 100cm of UL1185, 10	BAWG for 18~48V BAWG for 5~9V; BAWG for 12~15V;	100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V	120cm of UL2464, 18AWGx4C	
Standard DC plug (refer to page 57 for DC plug list)		P1J: 2.1øx5.5øx11mm / C	+, tuning fork type	P1M: 2.5øx5.5øx11mm / C+, tuning fork type	R7B: Power DIN 4P with lock type P1M: 2.5øx5.5øx11mm/C+, tuning fork type (20~48V only)	

■ Desktop (IEC 320-C14 / Class I) — 40W

Order No.	Output	Tol.	R&N	Effi.
GS40A05-P1J	5V, 0~5.00A	±5%	100mV	80.5%
GS40A07-P1J	7.5V, 0~5.34A	±5%	100mV	85.5%
GS40A09-P1J	9V, 0~4.45A	±5%	100mV	85.0%
GS40A12-P1J	12V, 0~3.34A	±3%	100mV	89.0%
GS40A15-P1J	15V, 0~2.67A	±3%	100mV	89.5%
GS40A18-P1J	18V, 0~2.22A	±3%	150mV	90.0%
GS40A24-P1J	24V, 0~1.67A	±2.5%	180mV	91.0%
GS40A48-P1J	48V, 0~0.84A	±2.5%	240mV	92.0%

■ Desktop (IEC 320-C14 / Class I) — **60W**

Order No.	Output	Tol.	R&N	Effi.
GS60A05-P1J	5V, 0~6.00A	±5%	100mV	81.0%
GS60A07-P1J	7.5V, 0~6.00A	±5%	100mV	85.5%
GS60A09-P1J	9V, 0~6.00A	±5%	100mV	87.5%
GS60A12-P1J	12V, 0~5.00A	±3%	100mV	88.0%
GS60A15-P1J	15V, 0~4.00A	±3%	100mV	88.5%
GS60A18-P1J	18V, 0~3.33A	±3%	150mV	88.5%
GS60A24-P1J	24V, 0~2.50A	±3%	180mV	90.0%
GS60A48-P1J	48V, 0~1.25A	±2.5%	240mV	92.0%

■ Desktop (IEC 320-C14 / Class I) — 90W

Order No.	Output	Tol.	R&N	Effi.
GS90A12-P1M	12V, 0~6.67A	±5%	80mV	88.0%
GS90A15-P1M	15V, 0~6.00A	±5%	100mV	89.0%
GS90A19-P1M	19V, 0~4.74A	±4%	150mV	89.0%
GS90A24-P1M	24V, 0~3.75A	±3%	180mV	89.5%
GS90A48-P1M	48V, 0~1.87A	±2%	240mV	91.0%

■ Desktop (IEC 320-C14 / Class I) — 120W

Order No.	Output	Tol.	R&N	Effi.
GS120A12-R7B	12V, 0~8.5A	±5%	80mV	87.5%
GS120A15-R7B	15V, 0~7.0A	±5%	120mV	89.0%
GS120A20-□	20V, 0~6.0A	±5%	150mV	89.0%
GS120A24-□	24V, 0~5.0A	±3%	180mV	90.0%
GS120A48-□	48V, 0~2.5A	±2%	240mV	91.0%
□= P1M / R7B				

Industrial Adaptor 160~280W Single Output





Features

- Universal AC input / Full range
- No load power consumption<0.5W
- Energy efficiency Level V
- Comply with EISA 2007, NRCan, AU/NZ MEPS and EU ErP
- Built-in active PFC function
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Fanless design, high operating temperature up to +70°C
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- LED indicator for power on
- 2 years warranty













General Specification

(refer to page 57 for DC plug list)

(except for GS280-20/24/48V) (except for 48V)

Order No. GS160A GS220A GS280A AC input voltage range 85~264VAC; 120~370VDC 90~264VAC; 127~370VDC Cold start, 120A at 230VAC AC inrush current (max.) 105%~135% rated output power Range Overload protection Hiccup mode, auto-recovery Type 105%~135% rated output power Range Over voltage protection Shut down o/p voltage, re-power on to recover Type 20ms at full load Hold up time 16ms at full load I/P-O/P: 3kVAC, 1 minute Withstand voltage -30~+70°C -30~+60°C (refer to output derating curve) Working temperature UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1(except for 48V) approved Safety standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part 15 class B, CNS13438, GB9254 **EMC** standards 120cm of UL2464, 18AWGx4C | 100cm of UL2464, 16AWGx4C Length of output cable Standard DC plug 4P/6.35mm pitch, AMP 1-480702-0 (power supply side);

Desktop (IEC320-C14/Class I) — 160W

Order No.	Output	Tol.	R&N	Effi.
GS160A12-R7B	12V, 0~11.5A	±5%	80mV	89.0%
GS160A15-R7B	15V, 0~9.6A	±5%	100mV	90.0%
GS160A20-R7B	20V, 0~8.0A	±4%	150mV	92.0%
GS160A24-R7B	24V, 0~6.67A	±3%	180mV	92.5%
GS160A48-R7B	48V, 0~3.34A	±3%	240mV	94.0%

R7B: Power DIN 4P with lock type

■ Desktop (IEC320-C14/Class I) — 280W

Order No.	Output	Tol.	R&N	Effi.
GS280A12-C4P	12V, 0~18.5A	±5%	120mV	89.0%
GS280A15-C4P	15V, 0~16A	±5%	120mV	89.5%
GS280A20-C4P	20V, 0~13A	±4%	150mV	92.0%
GS280A24-C4P	24V, 0~11.67A	±3%	280mV	93.0%
GS280A48-C4P	48V. 0~5.84A	+2%	280mV	94.0%

AMP 1-480703-0(customer side, not provided with GS280)

Desktop (IEC320-C14/Class I) — 220W

Order No.	Output	Tol.	R&N	Effi.
GS220A12-R7B	12V, 0~15.0A	±5%	80mV	90.0%
GS220A15-R7B	15V, 0~13.4A	±5%	100mV	90.0%
GS220A20-R7B	20V, 0~11.0A	±4%	150mV	92.0%
GS220A24-R7B	24V, 0~9.20A	±3%	180mV	93.5%
GS220A48-R7B	48V, 0~4.60A	±2%	240mV	94.5%



Who can provide you better services and be a trustworthy partner in the power industry?

"MEAN WELL" tries to be -



Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.

Industrial Adaptor 18~36W Single Output









GST18/25/36B 79x 54x 33 mm



GST18/25/36U 79x 54x 33 mm



GST18/25/36E 79x 54x 33 mm

Features

- Universal AC input / Full range
- No load power consumption < 0.075W
- Energy efficiency Level VI
- Comply with EISA 2007 / DoE, NRCan, AU/NZ MEPS, EU ErP and CoC Version 5
- 2 pole USA / EURO plug or IEC320-C14/C8
- Class II power (without earth pin) for B/U/E type Class I power (with earth pin) only for A type
- Protections: Short circuit / Overload / Over voltage

- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS
- Approvals:

A type: UL / CUL / TUV / BSMI / CCC / PSE / CB / FCC / CE B type: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE

U type: UL / CUL / BSMI / CB / FCC

E type: TUV / CB / CE

• 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Order No.		GST18	GST25	GST36			
AC input voltag	e range	85~264VAC					
AC inrush curre	nt (max.)	Cold start, 70A at 230VAC					
Overload	Range	110%~150% rated output power		110%~250% rated output power			
protection	Type	Hiccup mode, auto-recovery	Hiccup mode, auto-recovery				
Over voltage pr	otection	110%~140% rated output voltage, clamp b	oy zener diode				
Withstand volta	ge	I/P-O/P: 4242VDC, 1 minute					
Working temper	ature	-30~+70°C (refer to output derating curve)					
Safety standards		A-Type: UL60950-1, CSA 22.2, TUV EN60950-1, BSMI CNS14336, PSE J60950-1, CCC GB4943 approved B-Type: UL60950-1, CSA 22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved U-Type: UL60950-1, CSA22.2, BSMI CNS14336 approved E-Type: TUV EN60950-1 approved					
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11(A/B/E type); FCC part 15 class B, CNS13438 class B(A/B/U type); GB9254(A/B type)					
Length of outpu	ıt cable	120cm of UL1185, 16AWG for 5~12V; 180cm of UL1185, 18AWG for 15~48V	100cm of UL2468, 16AWG for 5~12V; 180cm of UL1185, 18AWG for 15~48V	100cm of UL2468, 16AWG			
Standard DC pl	ıg	P1J: 2.1øx5.5øx11mm / C+, tuning fork ty	pe (refer to page 57 for DC plug list)				

Desktop / Wall-mounted — 18W

Order No.	Output	Tol.	R&N	Effi.
GST18□05-P1J	5V, 0~3.00A	±5%	80mV	80.0%
GST18□07-P1J	7.5V, 0~2.00A	±5%	80mV	84.5%
GST18□09-P1J	9V, 0~2.00A	±5%	80mV	85.0%
GST18□12-P1J	12V, 0~1.50A	±3%	80mV	85.5%
GST18□15-P1J	15V, 0~1.20A	±3%	100mV	86.5%
GST18□18-P1J	18V, 0~1.00A	±3%	150mV	86.5%

	c(U) us (A) (A) (A)		CBF	©((®
Order No.	Output	Tol.	R&N	Effi.
GST18□24-P1J	24V, 0~0.75A	±2%	180mV	87.0%

+2%

±2%

240mV

240mV

87.0%

88.5%

48V, 0~0.375A GST18 □ 48-P1J $\square = A / B / U / E$

GST18 □ 28-P1J

Class I — A: IEC320-C14 Class II — B: IEC320-C8, U: American 2P, E: European 2P

28V, 0~0.64A

Desktop / Wall-mounted — 25W

Order No.	Output	Tol.	R&N	Effi.
GST25□05-P1J	5V, 0~4.00A	±5%	80mV	80.0%
GST25□07-P1J	7.5V, 0~2.93A	±5%	80mV	84.0%
GST25□09-P1J	9V, 0~2.55A	±5%	80mV	85.0%
GST25□12-P1J	12V, 0~2.08A	±3%	80mV	86.0%
GST25□15-P1J	15V, 0~1.66A	±3%	100mV	87.0%
GST25□18-P1J	18V, 0~1.38A	±3%	150mV	87.0%

0.00000				
Output	Tol.	R&N	Effi.	
24V, 0~1.04A	±2%	180mV	88.0%	
28V, 0~0.89A	±2%	240mV	88.0%	
48V, 0~0.52A	±2%	240mV	90.0%	
	24V, 0~1.04A 28V, 0~0.89A	24V, 0~1.04A ±2% 28V, 0~0.89A ±2%	24V, 0~1.04A ±2% 180mV 28V, 0~0.89A ±2% 240mV	24V, 0~1.04A ±2% 180mV 88.0% 28V, 0~0.89A ±2% 240mV 88.0%

 $\square = A / B / U / E$

Class I — A: IEC320-C14

Class II — B: IEC320-C8, U: American 2P, E: European 2P

■ Wall-mounted — 36W

Order No.	Output	Tol.	R&N	Effi.
GST36□05-P1J	5V, 0~4.30A	±5%	90mV	82.0%
GST36□09-P1J	9V, 0~3.11A	±5%	90mV	86.0%
GST36□12-P1J	12V, 0~3.00A	±3%	100mV	87.0%

	Visit for the		_		
Order No.	Output	Tol.	R&N	Effi.	
GST36□24-P1J	24V, 0~1.50A	±2%	180mV	88.5%	
GST36□48-P1J	48V, 0~0.75A	±2%	240mV	90.0%	
□=B / U / E : B:	IEC320-C8: U: Amer	ican 2P. E:	European 2P		

Industrial Adaptor

40~120W Single Output





Features

- Universal AC input / Full range
- No load power consumption <0.075W for GST40A/60A; <0.15W for GST90A/120A
- Energy efficiency Level VI
- Comply with EISA 2007 / DoE, NRCan, AU/NZ MEPS, EU ErP and CoC Version 5
- Built-in active PFC function for GST90A/120A
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Over voltage / Overload / Over temp. (except for GST40A)
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS (except for GST120A)
- 3 years warranty

General Specification



(GS170AF120A OIII))					
Order No.		GST40A	GST60A	GST90A	GST120A
AC input voltage	range	90~264VAC; 127~3	70VDC		85~264VAC; 120~370VDC
AC inrush curren	t (max.)	Cold start, 65A at 2	30VAC	Cold start, 70A at 230VAC	
Overload	Range	105%~150% rated (output power	110%~150%	105%~160%
protection	Type	Hiccup mode, auto-	recovery		
Over voltage pro	tection	105%~135% rated (output voltage		
Setup, rise, hold	up time	1000ms, 50ms, 50m	s at 230VAC input	1000ms, 20ms, 20ms at 230VAC input	2000ms, 30ms, 20ms at 230VAC input
Withstand voltag	е	I/P-O/P:3kVAC, I/P	-FG: 2kVAC, O/P-FG	5: 0.5kVAC	I/P-FG: 3kVAC
Working temperature -30~+70°C					
Safety standards UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1 approved		approved			
EMC standards		EN55022 class B, E	N61000-3-2,3, EN6	1000-4-2,3,4,5,6,8,11, CNS13438, GB9	9254, FCC part15 class B
Length of output	cable	GST40A: 100cm of UL1185, 180cm of UL1185, GST60A: 100cm of UL2464, 100cm of UL1185, 150cm of UL1185, 180cm of UL1185,	18AWG for 18~48V 16AWG for 5~9V; 16AWG for 12~15V; 16AWG for 18V;	100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V	100cm of UL2464, 16AWGx4C for 12V 120cm of UL2464, 18AWGx4C for 15~48V
Standard DC plug (refer to page 57 for DC plug list)		P1J: 2.1øx5.5øx11r tuning fork typ	mm / C+,	P1M: 2.5øx5.5øx11mm / C+, tuning fork type	R7B: Power DIN 4P with lock type P1M: 2.5øx5.5øx11mm/C+, tuning fork type (20~48V only)

■ Desktop (IEC 320-C14 / Class I) — 40W

Order No.	Output	Tol.	R&N	Effi.
GST40A05-P1J	5V, 0~5.00A	±5%	150mV	84.5%
GST40A07-P1J	7.5V, 0~5.34A	±5%	150mV	87.5%
GST40A09-P1J	9V, 0~4.45A	±5%	150mV	88.5%
GST40A12-P1J	12V, 0~3.34A	±3%	150mV	89.5%
GST40A15-P1J	15V, 0~2.67A	±3%	150mV	90.0%
GST40A18-P1J	18V, 0~2.22A	±3%	150mV	90.0%
GST40A24-P1J	24V, 0~1.67A	±2.5%	180mV	91.0%
GST40A48-P1J	48V, 0~0.84A	±2.5%	240mV	92.0%

Deskton	(IFC 320-	C14 / Class	1) — 90W
D C 2 V L U D	TILL JZU-	C 14 / C 10.55	11 — 3UVV

Order No.	Output	Tol.	R&N	Effi.
GST90A12-P1M	12V, 0~6.67A	±5%	120mV	89.0%
GST90A15-P1M	15V, 0~6.00A	±5%	150mV	89.5%
GST90A19-P1M	19V, 0~4.74A	±4%	180mV	90.0%
GST90A24-P1M	24V, 0~3.75A	±3%	200mV	90.0%
GST90A48-P1M	48V, 0~1.87A	±2.5%	240mV	91.0%

■ Desktop (IEC 320-C14 / Class I) — **60W**

Order No.	Output	Tol.	R&N	Effi.
GST60A05-P1J	5V, 0~6.00A	±5%	150mV	85.5%
GST60A07-P1J	7.5V, 0~6.00A	±5%	150mV	88.5%
GST60A09-P1J	9V, 0~6.00A	±5%	150mV	89.0%
GST60A12-P1J	12V, 0~5.00A	±3%	150mV	89.5%
GST60A15-P1J	15V, 0~4.00A	±3%	150mV	89.5%
GST60A18-P1J	18V, 0~3.33A	±3%	150mV	89.5%
GST60A24-P1J	24V, 0~2.50A	±3%	180mV	90.5%
GST60A48-P1J	48V, 0~1.25A	±2.5%	240mV	92.0%

■ Desktop (IEC 320-C14 / Class I) — 120W

Order No.	Output	Tol.	R&N	Effi.
GST120A12-R7B	12V, 0~8.5A	±5%	120mV	88.5%
GST120A15-R7B	15V, 0~7.0A	±5%	150mV	89.0%
GST120A20-□	20V, 0~6.0A	±5%	180mV	90.0%
GST120A24-□	24V, 0~5.0A	±3%	200mV	90.5%
GST120A48-□	48V, 0~2.5A	±2.5%	240mV	91.0%
□= P1M / R7B				

Industrial Adaptor

160~280W Single Output





Features

- Universal AC input / Full range
- No load power consumption<0.15W(GST280A <0.5W)
- Energy efficiency Level VI
- Comply with EISA 2007 / DoE, NRCan, AU/NZ MEPS, EU ErP and CoC Version 5
- · Built-in active PFC function
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Fanless design, high operating temperature up to +70°C
- Protections: Short circuit / Overload /

Over voltage / Over temperature

- Fully enclosed plastic case
- · LED indicator for power on
- 3 years warranty

General Specification



Order No.		GST160A GST220A GST280A			
AC input voltage range 85~264VAC; 120~370VDC					
AC inrush current (max.) Cold start, 120A at 230VAC					
Overload	Range	105%~135% rated output power	•		
protection	Туре	Hiccup mode, auto-recovery			
Over voltage	Range	105%~135% rated output power	•		
protection	Туре	Shut down o/p voltage, re-power on to recover			
Hold up time 20ms at full load 16ms at full load		16ms at full load			
Withstand volta	ge	I/P-O/P: 3kVAC, 1 minute			
Working temper	ature	-30~+70°C (refer to output dera	ating curve)		
Safety standard	S	UL60950-1, TUV EN60950-1, BS	MI CNS14336, CCC GE	4943, PSE J60950-1 approved	
EMC standards		EN55022 class B, EN61000-3-2,3,	EN61000-4-2,3,4,5,6,8	,11, FCC part 15 class B, CNS13438, GB9254, GB17625.1	
Length of output cable 120cm of UL2464, 18AWGx4C 100cm of UL2464, 16AWGx4C		5AWGx4C			
Standard DC plug (refer to page 57 for DC plug list)		R7B: Power DIN 4P with lock ty	6P/4.2mm pitch, MOLEX 39-01-2060(power sup MOLEX 39-01-2061(customer side, not provided		

■ Desktop (IEC320-C14/Class I) — 160W

Order No.	Output	Tol.	R&N	Effi.
GST160A12-R7B	12V, 0~11.5A	±5%	80mV	90.0%
GST160A15-R7B	15V, 0~9.6A	±5%	100mV	91.0%
GST160A20-R7B	20V, 0~8.0A	±4%	150mV	93.0%
GST160A24-R7B	24V, 0~6.67A	±3%	180mV	93.0%
GST160A48-R7B	48V, 0~3.34A	±3%	240mV	94.0%

■ Desktop (IEC320-C14/Class I) — 280W

Order No.	Output	Tol.	R&N	Effi.
GST280A12-C6P	12V, 0~21A	±5%	120mV	90.0%
GST280A15-C6P	15V, 0~17A	±5%	120mV	90.0%
GST280A20-C6P	20V, 0~13A	±4%	150mV	92.0%
GST280A24-C6P	24V, 0~11.67A	±3%	280mV	93.0%
GST280A48-C6P	48V, 0~5.84A	±2%	280mV	94.0%

Desktop (IEC320-C14/Class I) — 220W

Order No.	Output	Tol.	R&N	Effi.
GST220A12-R7B	12V, 0~15.0A	±5%	80mV	90.0%
GST220A15-R7B	15V, 0~13.4A	±5%	100mV	90.0%
GST220A20-R7B	20V, 0~11.0A	±4%	150mV	92.0%
GST220A24-R7B	24V, 0~9.20A	±3%	180mV	93.5%
GST220A48-R7B	48V, 0~4.60A	±2%	240mV	94.5%



Who can provide you better services and be a trustworthy partner in the power industry?

- "MEAN WELL" tries to be -



Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.

Industrial Adaptor 25~60W Single and Triple Output



40W&60W Slim Wall-mounted Green Adaptor

- Universal AC input / Full range
- · No load power consumption <0.075W for SGA40; <0.15W for SGA60
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, EU ErP
- 2 pole US/European type plug
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Fully enclosed plastic case
- LED indicator for power on (60W only)
- · 3 year warranty



AC input voltage range	90~264VAC; 127~370VDC
AC inrush current(max.)	Cold start, 70A at 230VAC(40W); 80A at 230VAC(60W)
Overload protection	Hiccup mode, auto-recovery
-	110%~140% clamp by Zener diode
Setup, rise, hold up time	40W: 500ms, 100ms, 12ms at full load
•	60W: 500ms, 50ms, 12ms at full load
Withstand voltage	I/P-O/P:4242VDC, 1 minute
Working temperature	-20~+50°C (refer to output derating curve)
= -	U-Type: UL60950-1, CSA 22.2 approved
-	E-Type: TUV EN60950-1 approved
EMC standards	U-Type: FCC part15 Class B
	E-Type: EN55022 Class B
Length of output cable	100cm of 14AWG for SGA40 5V and SGA60 5~9V
	100cm of 16AWG for SGA40 9~15V and
	SGA60 12~18V
	150cm of 18AWG for SGA60 24~48V
	150cm of 20AWG for SGA40 18~48V
Standard DC plug	P1J: 2.1øx5.5øx11mm/C+, turning fork type
-	(refer to page 57 for DC plug list)

◆ 40W

Order No.	Output	Tol.	R&N	Effi.
SGA40□05-P1J	5V, 0~5.00A	±5%	120mV	83.0%
SGA40□09-P1J	9V, 0~4.44A	±5%	120mV	86.0%
SGA40□12-P1J	12V, 0~3.33A	±3%	120mV	86.5%
SGA40□15-P1J	15V, 0~2.66A	±2%	120mV	86.5%
SGA40□18-P1J	18V, 0~2.22A	±2%	120mV	87.0%
SGA40□24-P1J	24V, 0~1.67A	±2%	150mV	88.0%
SGA40□48-P1J	48V, 0~0.84A	±2%	150mV	89.0%
□ =U / E, U: Am	nerican 2P, E: Euro	opean 2P		

◆ 60W

. 0011							
Order No.	Output	Tol.	R&N	Effi.			
SGA60□05-P1J	5V, 0~6.00A	±5%	80mV	84%			
SGA60□07-P1J	7.5V, 0~6.00A	±5%	80mV	86%			
SGA60□09-P1J	9V, 0~5.50A	±5%	80mV	87%			
SGA60□12-P1J	12V, 0~5.00A	±3%	80mV	88%			
SGA60□15-P1J	15V, 0~4.00A	±3%	80mV	87%			
SGA60□18-P1J	18V, 0~3.33A	±2%	80mV	88%			
SGA60□24-P1J	24V, 0~2.50A	±2%	100mV	88%			
SGA60□48-P1J	48V, 0~1.25A	±2%	120mV	91%			
□ = U / E. U: American 2P. E: European 2P							

25W AC-DC Triple Output

- Universal AC input / Full range
- Protections: Short circuit / Overload / LED indicator for power on Over voltage / Over temp. • 1 year warranty
- Fully enclosed plastic case





P₂₅A 108x 67x 36 mm



P₂₅B 108x 67x 36 mm

AC input voltage range 90~264VAC ; 135~370VDC AC inrush current(max.) Cold start, 60A at 230VAC Overload protection Hiccup mode, auto-recovery Over voltage protection 110%~140% of +5V output EN61000-4-2,3,4,5,6,11 Length of output cable 150cm of UL2464 Standard DC plug R1B: DIN 5P

*25W - Triple output (IEC 320-C14 / Class I)

	(
Order No. P25A13A-R1B	Output 5V, 0.5~2.5A	Tol. ±5%	R&N 50mV	Effi. 70%	Max . 25W
1 23/13/11/10	12V, 0.1~0.8A	±5%	100mV	7070	23 VV
	-5V, 0.1~0.3A	±3%	100mV		
P25A13D-R1B	5V, 0.5~2.5A	±5%	50mV	72%	25W
	12V, 0.1~0.8A	±5%	100mV		
	-12V, 0.1~0.3A	±3%	100mV		
P25A14E-R1B	5V, 0.5~2.5A	±5%	50mV	74%	25W
	15V, 0.1~0.5A	±5%	100mV		
	-15V, 0.1~0.3A	±3%	100mV		

* 25W - Triple output (IEC 320-C8 / Class II)

Order No.	Output	Tol.	R&N	Effi.	Max.
P25B13A-R1B	5V, 0.5~2.5A	±5%	50mV	70%	25W
	12V, 0.1~0.8A	±5%	100mV		
	-5V, 0.1~0.3A	±3%	100mV		
P25B13D-R1B	5V, 0.5~2.5A	±5%	50mV	72%	25W
	12V, 0.1~0.8A	±5%	100mV		
	-12V, 0.1~0.3A	±3%	100mV		
P25B14E-R1B	5V, 0.5~2.5A	±5%	50mV	74%	25W
	15V, 0.1~0.5A	±5%	100mV		
	-15V, 0.1~0.3A	±3%	100mV		

50W AC-DC Triple Output





- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage
- · Fully enclosed plastic case
- · LED indicator for power on
- 147x 76x 43 mm 1 year warranty

AC input voltage r	ange 90~264VAC ; 135~3/0VDC
AC inrush current	(max.) Cold start, 40A at 230VAC
Overload protection	on Hiccup mode, auto-recovery
Over voltage prote	ection 110%~140% for +5V output
Hold up time	12ms at full load
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
Working temperate	ure 0~+40°C (refer to output derating curve)
Safety standards	UL1950, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3,
	EN61000-4-2,3,4,5,6,11
Length of output of	able 120cm of UL2464
Standard DC plug	R1B: DIN 5P

00 2/41/40

Order No. P50A13A-R1B	Output 5V, 0.5~4.0A 12V, 0.5~2.0A	Tol. ±6% ±10%	R&N 50mV 100mV	Effi . 70%	Max. 46.5W
P50A13D-R1B	-5V, 0.1~0.5A 5V, 0.5~4.0A 12V, 0.5~2.0A	±12% ±6% ±10%	100mV 50mV 100mV	72%	50.0W
P50A14E-R1B	-12V, 0.1~0.5A 5V, 0.5~4.0A 15V, 0.5~1.5A -15V, 0.1~0.5A	±12% ±6% ±10% +12%	100mV 50mV 100mV 100mV	74%	50.0W

Medical Adaptor

18W Interchangeable Type





Features

- Interchangeable AC plugs (plug kit sold separately)
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Universal AC input / Full range
- No load power consumption < 0.075W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE and EU ErP
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Low leakage current <100µA
- Fully enclosed plastic case
- Optional lock type DC plug
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



		·		
Order No.		GEM18I		
AC input voltag	je range	80~264VAC; 113~370VDC		
AC inrush curre	ent (max.)	Cost start, 30A at 100VAC; 60A at 230VAC		
Overload	Range	105%~160% rated output power		
protection	Type	Hiccup mode, auto-recovery		
Over voltage protection		110%~140% rated output voltage, clamp by zener diode		
Setup, rise, hol	ld up time	500ms, 30ms, 16ms at 230VAC input		
Withstand volta	age	I/P-O/P: 5656VDC, 1 minute		
Working tempe	rature	-20~+50°C (refer to output derating curve)		
Safety standard	ds	ANSI/AAMI ES60601-1/60601-1-11, EN60601-1/60601-1-11 approved		
EMC standards		EN55022 Class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part18 class B		
Length of outpu	ut cable	100cm of 16AWG for 5-9V; 100cm of 18AWG for 12V; 150cm of 22AWG for 15~48V		
Standard DC pl	ug	P1J: 2.1øx5.5øx11mm/C+, turning fork type		

■ Wall-mounted(Interchangeable Type)—18W

Order No. (main body)	Output	Tol.	R&N	Effi.
GEM18I05-P1J	5V, 0~3.00A	±5%	60mV	80%
GEM18I09-P1J	9V, 0~2.00A	±5%	60mV	84%
GEM18I12-P1J	12V, 0~1.50A	±3%	80mV	84%
GEM18I15-P1J	15V, 0~1.20A	±3%	80mV	84%
GEM18I18-P1J	18V, 0~1.00A	±2%	80mV	84%
GEM18I24-P1J	24V, 0~0.75A	±2%	80mV	85%
GEM18I48-P1J	48V, 0~0.375A	±2%	80mV	87%

► Interchangeable AC Plug Specifically for GEM18I

▶ Interchangeable AC Plug Specifically for GEM18I —								
AC Plug Type	PUBLIC STATE OF THE PUBLIC	Pulst. Sold Sold Sold Sold Sold Sold Sold Sold						
	Australian Type	U.K. Type						
AC Plug Order No.	AC Plug-AU2	AC Plug-UK2						
AC Plug Type	No long to the state of the sta	PUSH DOE						
	European Type	U.S. Type						
AC Plug Order No.	AC Plug-EU2	AC Plug-US2						
Mix four Type	AC PIUG-EO2 AC PIUG-OS2 AC PIUG-OS2							
AC Plug Order No.	AC Pluç	g-MIX2						
Note: Main body uni	t and AC plug should be ordere	d seperately; The main body						

needs to be used along with any of the AC plug.

Optional	DC PI	ug List		
Tombon Fords Chale	T	Α	В	С
Tuning Fork Style	Туре	OD	ID	L
, C .	P1I	5.5	2.1	9.5
	P1J	5.5	2.1	11.0
A D B	P1L	5.5	2.5	9.5
1	P1M	5.5	2.5	11.0
Daniel Chila	Tuma	Α	В	С
Barrel Style	Туре	OD	ID	L
, C	P2I	5.5	2.1	9.5
	P2J	5.5	2.1	11.0
A B	P2L	5.5	2.5	9.5
	P2M	5.5	2.5	11.0
Lock Style	Туре	Α	В	С
Locking C A O B	P2S (S761K)	5.53	2.03	12.06
DIN 5 Pin	Туре	Pir	n Assignm	ent
		Sing		Triple
05 2 40			COM	CÓM
◎ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	R1B		COM	COM
	KID		Vout	+5V -Vout
			Vout	+Vout
DIN 4 Pin with lock	Type	-		
DIN 4 Pin with lock	Туре	-	n Assignm	
2 3		Pir PIN N	n Assignm	ent Output +Vout
	Type R7B	Pin N PIN N 1	n Assignm	ent Output +Vout GND
		Pin N 1 2 3	n Assignm	Output +Vout GND GND
2 3	R7B	Pir PIN N 1 2 3 4	n Assignm lo.	ent Output +Vout GND

Medical Adaptor

6~36W Single Output







GSM06E







GSM18B/25B/36B

GSM18U/25U/36U

GSM18E/25E/36E

Features

- Universal AC input / Full range
 Medical safety approved(2xMOPP)
 Suitable for BF application
- Low leakage current <50μA
- No load power consumption <0.1W(<0.3W for GSM06)
- Energy efficiency Level VI (GSM06 and GSM18/25/36 5-9V for Level V)
 Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5(GSM18/25/36); EISA 2007 and EU ErP(GSM06)

66x 32x 42.5

- Class II power(without earth pin)
 2 pole USA / EURO plug or IEC320-C8
 Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
 LED indicator for power on(except for GSM06)
 Optional lock type DC plug
 Certificates: B-Type: UL / CUL / TUV / CB / FCC / CE U-Type: UL / CUL / CB / FCC
 E-Type: TUV / CB / CE
 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

version a(G2	version 5(GSM16/25/30), E13A 2007 and E0 E1F(GSM00)							
General S	Specificatio	n (Please refer to www.meanwe	ell.com for detail spec.)	C SUS LEVELLE	CBF©(€®			
Order No.		GSM06	GSM18	GSM25	GSM36			
AC input volt	age range	80~264VAC; 113~370VDC						
AC inrush current (max.) Cold start, 30A at 230VAC			Cold start, 55A at 230VAC					
Overload	Range	>105% rated output power	105%~170% rated output p	ower				
protection	Туре	Hiccup mode, auto-recovery						
Over voltage protection 110%~140% 105%~135% rated output voltage, shut down o/p voltage, re-power on to								
Setup, rise, hold up time 1000ms, 50ms, 12ms			500ms, 30ms, 16ms at 230VAC input					
Withstand voltage I/P-O/P: 5656VDC I/P-O/P: 4kVAC								
Working tem	perature	0~+50°C	-25~+60°C (refer to output	derating curve)				
Safety standa	ards	B-Type(except for GSM06): ANSI// U-Type: ANSI/AAMI ES60601-1, E E-Type: TUV EN60601-1 / EN6060	S60601-1-11 approved	-11 , TUV EN60601-1 / EN60	0601-1-11 approved			
B-Type(except for GSM06): EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3,								
Length of ou	tput cable	120cm of UL2468, 22AWG for 5-9V; 180cm of UL2468, 24AWG for 12-24V	120cm of UL1185, 16AWG for GSM18/25/36 5-9V; 180cm of UL1185, 16AWG for GSM25 12V and GSM36 12-48V; 180cm of UL1185, 18AWG for GSM18 12-48V and GSM25 15-48V					

■ Wall-mounted — 6W

Standard DC plug Dimension (LxWxH)(mm)

Order No.	Output	Tol.	R&N	Effi.	Order No. Output Tol. R&N Effi.
GSM06□05-P1J	5V, 0~1.20A	±5%	50mV	68%	Order No. Output Tol. R&N Effi. GSM06□15-P1J 15V. 0~0.40A ±5% 120mV 79%
GSM06□06-P1J	6V, 0~1.00A	±5%	50mV	74%	GSM06□13-P13 15V, 0~0.40A ±5% 120IIV 79% GSM06□18-P1J 18V, 0~0.33A ±5% 150mV 80%
GSM06□07-P1J	7.5V, 0~0.80A	±5%	80mV	74%	GSM06□16-P1J 18V, 0~0.35A ±5% 130IIIV 80% 6SM06□24-P1J 24V, 0~0.25A ±4% 180mV 82%
GSM06□09-P1J	9V, 0~0.66A	±5%	80mV	76%	$\Box = U / E ; U: American 2P, E: European 2P$
GSM06□12-P1J	12V, 0~0.50A	±5%	100mV	77%	L = 0 / L , 0. American ZF, L. Luropean ZF

P1J: 2.1øx 5.5øx 11mm / C+, tuning fork type (refer to page 57 for DC plug list)

79x 54x 33

Desktop / Wall-mounted — 18W

Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GSM18□05-P1J	5V, 0~3.00A	±5%	60mV	80%	GSM18□18-P1J	18V, 0~1.00A	±3%	150mV	86%
GSM18□07-P1J	7.5V, 0~2.00A	±5%	80mV	83%	GSM18□24-P1J	24V, 0~0.75A	±2%	180mV	87%
GSM18□09-P1J	9V, 0~2.00A	±5%	80mV	84%	GSM18□48-P1J	48V, 0~0.375A	±2%	240mV	88%
GSM18□12-P1J	12V, 0~1.50A	±3%	120mV	85%	$\square = B / U / E$;				
GSM18□15-P1J	15V, 0~1.20A	±3%	120mV	85.5%	B: IEC320-C8	, U: American 2P, E	E: Europea	n 2P	

Desktop / Wall-mounted — 25W

Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GSM25 □ 05-P1J	5V, 0~4.00A	±6%	60mV	80%	GSM25□18-P1J	18V, 0~1.38A	±3%	150mV	86%
GSM25□07-P1J	7.5V, 0~2.93A	±5%	80mV	83%	GSM25□24-P1J	24V, 0~1.04A	±2%	180mV	87%
GSM25□09-P1J	9V, 0~2.77A	±5%	80mV	84%	GSM25□48-P1J	48V, 0~0.52A	±2%	240mV	88%
GSM25□12-P1J	12V, 0~2.08A	±3%	120mV	86%	$\square = B / U / E$;				
GSM25□15-P1J	15V, 0~1.66A	±3%	120mV	86%	B: IEC320-C8	, U: American 2P,	E: Europea	n 2P	

Desktop / Wall-mounted — 36W

Desktob / W	an-mounted —	JUVV							
Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GSM36□05-P1J	5V, 0~4.50A	±6%	80mV	80%	GSM36□18-P1J	18V, 0~2.00A	±3%	150mV	87%
GSM36□07-P1J	7.5V, 0~4.32A	±5%	80mV	83%	GSM36□24-P1J	24V, 0~1.50A	±2%	180mV	87%
GSM36□09-P1J	9V, 0~4.00A	±5%	80mV	84%	GSM36□48-P1J	48V, 0~0.75A	±2%	240mV	88%
GSM36□12-P1J	12V, 0~3.00A	±3%	120mV	86%	□=B / U / E ;	II. American 2D	E. Europoo	n 2D	
GSM36□15-D1 I	15\/ Λ~2 /ΛΔ	+3%	120m\/	87%	B: TEC320-C8	U: American 2P, I	e: Europeai	II ZP	

Medical Adaptor

40~90W Single Output









GSM40A/60A

GSM40B/60B

GSM90B

Features

- Universal AC input / Full range
- Medical safety approved(2xMOPP)
- Suitable for BF application with appropriate system consideration (except for GSM40A/60A)
- Low leakage current < 50μA(<100μA for GSM40A/60A/90B)
- No load power consumption < 0.1W(< 0.15W for GSM90B)
- Energy efficiency Level VI (except GSM40/60 5~9V for Level V)
- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Built-in active PFC function(GSM90B)

- High efficiency up to 91.5%
- A-Type: Class I (with earth Pin)
- B-Type: Class II(without earth Pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.(except for GSM40)
- Fully enclosed plastic case
- LED indicator for power on
- Optional lock type DC plug
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Order No.		GSM40A/B	GSM60A/B	GSM90B	
AC input voltage	range	80~264VAC; 113~370VDC			
AC inrush current	t (max.)	Cold start, 65A at 230VAC			
Overload Range 105%~160% rated output power				110%~150%	
protection	Type	Hiccup mode, auto-recovery			
Over voltage	Range	105%~135% rated output voltage			
protection	Type	Shut down o/p voltage, re-power on to r	ecover		
Setup, rise, hold up ti	me	1000ms, 50ms, 20ms			
Withstand voltage		A-Type: I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: Short B-Type: I/P-O/P: 4kVAC		I/P-O/P: 4kVAC	
Working temperat	ure	-30~+60°C (refer to output derating c	urve)		
Safety standards		ANSI/AAMI ES60601-1 / ES60601-1-11,	TUV EN60601-1 / EN60601-1-11	approved	
EMC standards		EN55011 class B, EN61000-3-2,3, EN610	000-4-2,3,4,5,6,8,11, EN61204-3, E	N60601-1-2 medical level, FCC Part 15 class B	
Length of output cable		100cm of 10 185 164W(3 for (3×M40 9×17V		100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V	
Standard DC plug (refer to page 57 for DC plug list)		P1J: 2.1øx5.5øx11mm/c+, tuning fork	P1J: 2.1øx5.5øx11mm/c+, tuning fork type		
Dimension (LxWx	H)(mm)	125x 50x 31.5		145x 60x 32	

■ Desktop (IEC 320-C14 / Class I) — 40W

Order No.	Output	Tol.	R&N	Effi.
GSM40A05-P1J	5V, 0.1~5.00A	±5%	100mV	81.0%
GSM40A07-P1J	7.5V, 0.1~5.34A	±5%	100mV	85.5%
GSM40A09-P1J	9V, 0.1~4.45A	±5%	100mV	86.0%
GSM40A12-P1J	12V, 0.1~3.34A	±3%	100mV	88.0%
GSM40A15-P1J	15V, 0.1~2.67A	±3%	100mV	88.5%
GSM40A18-P1J	18V, 0.1~2.22A	±3%	150mV	89.5%
GSM40A24-P1J	24V, 0.1~1.67A	±2.5%	180mV	90.0%
GSM40A48-P1J	48V, 0.1~1.84A	±2.5%	240mV	91.0%

■ Desktop (IEC 320-C14 / Class I) — **60W**

Order No.	Output	Tol.	R&N	Effi.
GSM60A05-P1J	5V, 0.1~6.00A	±5%	100mV	81.5%
GSM60A07-P1J	7.5V, 0.1~6.00A	±5%	100mV	86.0%
GSM60A09-P1J	9V, 0.1~6.00A	±5%	100mV	87.5%
GSM60A12-P1J	12V, 0.1~5.00A	±3%	100mV	88.0%
GSM60A15-P1J	15V, 0.1~4.00A	±3%	100mV	88.5%
GSM60A18-P1J	18V, 0.1~3.33A	±3%	150mV	89.0%
GSM60A24-P1J	24V, 0.1~2.50A	±3%	180mV	90.0%
GSM60A48-P1J	48V, 0.1~1.25A	±2.5%	240mV	91.0%

■ Desktop (IEC 320-C8 / Class II) — **40W**

Order No.	Output	Tol.	R&N	Effi.
GSM40B05-P1J	5V, 0.1~5.00A	±5%	100mV	81.0%
GSM40B07-P1J	7.5V, 0.1~5.34A	±5%	100mV	85.5%

Order No.	Output	Tol.	R&N	Effi.
GSM40B09-P1J	9V, 0.1~4.45A	±5%	100mV	86.0%
GSM40B12-P1J	12V, 0.1~3.34A	±3%	100mV	88.0%
GSM40B15-P1J	15V, 0.1~2.67A	±3%	100mV	88.5%
GSM40B18-P1J	18V, 0.1~2.22A	±3%	150mV	89.5%
GSM40B24-P1J	24V, 0.1~1.67A	±2.5%	180mV	90.0%
GSM40B48-P2J	48V, 0.1~0.84A	±2.5%	240mV	91.0%

■ Desktop (IEC 320-C8 / Class II) — 60W

Order No.	Output	Tol.	R&N	Effi.	
GSM60B05-P1J	5V, 0.1~6.00A	±5%	100mV	81.0%	
GSM60B07-P1J	7.5V, 0.1~6.00A	±5%	100mV	86.0%	
GSM60B09-P1J	9V, 0.1~6.00A	±5%	100mV	87.5%	
GSM60B12-P1J	12V, 0.1~5A	±3%	100mV	88.0%	
GSM60B15-P1J	15V, 0.1~4A	±3%	100mV	88.5%	
GSM60B18-P1J	18V, 0.1~3.33A	±3%	150mV	89.0%	
GSM60B24-P1J	24V, 0.1~2.5A	±3%	180mV	90.0%	
GSM60B48-P1J	48V, 0.1~1.25A	±2.5%	240mV	91.5%	

■ Desktop (IEC 320-C8 / Class II) — 90W

Order No.	Output	Tol.	R&N	Effi.	
GSM90B12-P1M	12V, 0~6.67A	±5%	120mV	88.0%	
GSM90B15-P1M	15V, 0~6.00A	±5%	150mV	89.0%	
GSM90B19-P1M	19V, 0~4.74A	±4%	180mV	89.0%	
GSM90B24-P1M	24V, 0~3.75A	±3%	200mV	90.0%	
GSM90B48-P1M	48V. 0~1.87A	±2.5%	240mV	91.0%	

Medical Adaptor 120W~220W Single Output





Features

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Low leakage current < 100μA
- No load power consumption < 0.15W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Built-in active PFC function
- High efficiency up to 94.5%
- Fanless design, high operating temperature up to +70°C
- Class II (without earth Pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- LED indicator for power on
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Order No.		GSM120B	GSM160B	GSM220B		
AC input voltage	range	80~264VAC; 113~370VDC				
AC inrush curren	t (max.)	Cold start,70A at 230VAC	Cold start, 120A at 230VAC			
Overload	Range	105%~160% rated output power	105%~135% rated output power			
protection	Type	Hiccup mode, auto-recovery				
Over voltage	Range	105%~135% rated output voltage				
protection	Type	Shut down o/p voltage, re-power on to recover				
Setup, rise, hold up time		1500ms, 30ms, 20ms	2000ms, 20ms, 20ms	2000ms, 50ms, 20ms		
Withstand voltag	е	I/P-O/P: 4kVAC				
Working tempera	ture	-30~+60°C	-30~+70°C (refer to output derating curve)			
Safety standards		ANSI/AAMI ES60601-1 / ES60601-1-11, TUV EN60601-1 / EN60601-1-11 approved				
EMC standards		EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B				
Length of output cable		100cm of UL2464, 18AWGx4C for 12V; 120cm of UL2464, 18AWGx4C for 15~48V	120cm of UL2464, 18AWGx4C	100cm of UL2464, 18AWGx4C		
Standard DC plug (refer to page 57 for D	•	R7B: power DIN 4P with lock type				
Dimension (LxWxH)(mm)		167x 67x 35	175x 72x 35	210x 85x 46		

■ Desktop (IEC 320-C8 / Class II) — 120W

Order No.	Output	Tol.	R&N	Effi.
GSM120B12-R7B	12V, 0~8.5A	±5%	120mV	88.0%
GSM120B15-R7B	15V, 0~7.00A	±5%	150mV	89.0%
GSM120B20-R7B	20V, 0~6.00A	±5%	180mV	89.0%
GSM120B24-R7B	24V, 0~5.00A	±3%	200mV	90.0%
GSM120B48-R7B	48V, 0~2.50A	±2.5%	240mV	91.5%

Desktop (IEC 3	320-C8 / Class	11) - 22	0W	NEW	
Order No.	Output	Tol.	R&N	Effi.	
GSM220B12-R7B	12V, 0~15.0A	±5%	80mV	90.0%	
GSM220B15-R7B	15V, 0~13.4A	±5%	100mV	90.0%	
GSM220B20-R7B	20V, 0~11.0A	±4%	150mV	92.5%	
GSM220B24-R7B	24V, 0~9.20A	±3%	180mV	93.5%	
GSM220B48-R7B	48V, 0~4.60A	±2%	240mV	94.5%	

■ Desktop (IEC 320-C8 / Class II) — 160W

		,			
Order No.	Output	Tol.	R&N	Effi.	
GSM160B12-R7B	12V, 0~11.5A	±5%	80mV	90.0%	
GSM160B15-R7B	15V, 0~9.6A	±5%	100mV	91.0%	
GSM160B20-R7B	20V, 0~8.0A	±4%	150mV	93.0%	
GSM160B24-R7B	24V, 0~6.67A	±3%	180mV	93.0%	
GSM160B48-R7B	48V, 0~3.34A	±3%	240mV	94.0%	



Who can provide you better services and be a trustworthy partner in the power industry?

"MEAN WELL" tries to be -



Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.

Moistureproof Adaptor 60~120W Single Output





Features

- · IP67 design for main body
- · Universal AC input / Full range
- No load power consumption < 0.15W
- Energy efficiency Level VI
- E-Type: Comply with EU ErP and meet CoC Version 5 U-Type: Comply with EISA 2007/DoE and NRCan
- Built-in active PFC function (OWA-90/120)
- Class II power (without earth pin)
- High efficiency up to 91%
- Fanless design, cooling by free air convection
- -40~+70°C wide operating range (-35~+70°C for OWA-60)
- · Fully enclosed by plastic case filling with heat-conducted glue
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Suitable for general electronics applications at highly dusty or damp environment
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		OWA-60	OWA-90	OWA-120 🗌		
AC input volt	age range	90~264VAC; 127~370VDC				
AC inrush cu		Cold start, 65A at 230VAC	Cold start, 60A at 230VAC			
Leakage curr	ent	<0.25mA at 240VAC				
Overload pro	tection	E-Type: 105~115% hiccup mode, auto	o-recovery; U-Type: 95~108% constant	current limiting, auto-recovery		
Over voltage	protection	110%~140% rated output voltage				
Over tempera	ture protection	Shut down output voltage, re-power o	on to recover			
Setup, rise, holdup time		500ms, 80ms, 10ms at full load and 230VAC	500ms, 80ms, 16ms at full load and 230VAC			
Withstand vo	Itage	I/P-O/P: 3.75KVAC				
Working temp	perature	-35~+70°C	-40~+70°C (refer to output derating curve)			
Safety standa	ards	E-Type: EN61558-1, EN61558-2-16 listed	; EN60335-1 listed approved; U-Type: UL8	1 listed approved; U-Type: UL8750 listed approved		
EMC standard	ds	E-Type: EN55022 class B, EN55014,	EN61000-3-2,-3; U-Type: FCC Part 15			
	Input	E-Type: 150cm of H05RN-F 1.0mm ² x	2C; U-Type: 150cm of SVT 18AWGx2C			
Length of output cable	Output	E-Type: 30cm of H05RN-F 1.0mm ² x2C U-Type: 30cm of UL1185 16AWG x2C	E-Type: 30cm of H05RN-F 1.0mm ² x2C U-Type: 30cm of UL2464 18AWG x4C	E-Type: 30cm of H07RN-F 1.5mm ² x2C U-Type: 30cm of UL2464 18AWG x4C		
Standard	Input	E-Type: CEE 7/7 EU plug; U-Type: NI	EMA 1-15P plug			
plug	Output	2.1øx5.5øx11mm / C+, tuning fork type	E-Type: XLR 4P, male type; U-Type: R7B, Power DIN 4P with lock type			
Dimension (L	xWxH)(mm)	130x 53x 35	171x 63x 37.5	191x 63x 37.5		
		0 0 00///50				

® CB(€F© NEW

Model No.	Output	Tol.	R&N	Effi.
OWA-60 □ -12	12V, 0~5A	$\pm4.0\%$	150mV	88%
OWA-60 □ -15	15V, 0~4A	$\pm 4.0\%$	150mV	89%
OWA-60 □ -20	20V, 0~3A	$\pm 4.0\%$	150mV	89%
OWA-60 □ -24	24V, 0~2.5A	±3.0%	150mV	90%
OWA-60 □ -30	30V, 0~2A	±3.0%	200mV	90%
OWA-60 □ -36	36V, 0~1.67A	±2.0%	200mV	90%
OWA-60 🗆 -42	42V, 0~1.5A	±1.0%	250mV	90%
OWA-60 □ -48	48V, 0~1.25A	±1.0%	250mV	91%
OWA-60 □ -54	54V, 0~1.12A	$\pm 1.0\%$	350mV	91%
□ = E / U ; E: E:	uropean 2P, U: Ame	erican 2P		

OWA-90 Series		(E-Type)	(U-Type, 42-54V)		CEF© (E-Type) (U-Type	
Model No	Output		Tol	D g.NI	Effi	

Model No.	Output	Tol.	R&N	Effi.	
OWA-90 □ -12	12V, 0~7.5A	$\pm4.0\%$	150mV	89%	
OWA-90 □ -15	15V, 0~6A	±4.0%	150mV	90%	
OWA-90 🗆 -20	20V, 0~4.5A	±4.0%	150mV	90%	
OWA-90 □ -24	24V, 0~3.75A	±3.0%	150mV	90%	

	OWA-90 □ -30	30V, 0~3A	$\pm 3.0\%$	200mV	90%	
	OWA-90 □ -36	36V, 0~2.5A	$\pm 2.0\%$	200mV	91%	
	OWA-90 🗆 -42	42V, 0~2.15A	±1.0%	250mV	91%	
	OWA-90 □ -48	48V, 0~1.88A	±1.0%	250mV	91%	
	OWA-90 □ -54	54V, 0~1.67A	±1.0%	350mV	91%	
□ = E / U ; E: European 2P, U: American 2P						



Model No.	Output	Tol.	R&N	Effi.
OWA-120 □ -12	12V, 0~10A	$\pm4.0\%$	150mV	89.0%
OWA-120 □ -15	15V, 0~8A	$\pm4.0\%$	150mV	89.5%
OWA-120 □ -20	20V, 0~6A	±4.0%	150mV	90.0%
OWA-120 🗆 -24	24V, 0~5A	$\pm 4.0\%$	150mV	90.5%
OWA-120 □ -30	30V, 0~4A	±3.0%	200mV	90.0%
OWA-120 □ -36	36V, 0~3.4A	±2.0%	200mV	90.5%
OWA-120 🗆 -42	42V, 0~2.9A	±1.0%	250mV	90.5%
OWA-120 □ -48	48V, 0~2.5A	±1.0%	250mV	91.0%
OWA-120 □ -54	54V, 0~2.3A	±1.0%	350mV	91.0%
□ = E / U ; E: Eur	opean 2P, U: Ame	erican 2P		

Green Charger 30~326W Portable Battery Charger



30W Green Adaptor with Charging Function

- · Universal AC input / Full range
- Class II power (without earth pin)
- No load power consumption < 1W Constant current and voltage (CC, CV mode)
- High reliability
- · Suitable for high surge current equipment
- · Protections: Short circuit / Overload / Over voltage / Over temp.
- 2 color LED indicator for charging status
- · Fully enclosed plastic case
- 2 years warranty



AC input voltage range 90~264VAC; 127~370VDC
Overload protection90%~110% constant current mode and ove
300% pulsing mode
Over voltage protection 110%~135% rated output voltage
Withstand voltage I/P-O/P: 3kVAC, 1minute
Working temperature 0~+50°C (refer to output derating curve)
Safety standards UL60950-1, CSA 22.2, TUV EN60950-1 approved
EMC standards EN55014-1, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,11
Length of output cable 120cm of UL1185, 16AWG for 4.2~8.4V
180cm of UL1185, 18AWG for 14.3~28.6V

Standard DC plug P1J: 2.1øx5.5øx11mm / C+, tuning fork type			
Order No.	Output	R&N	Effi.
GC30□-0P1J	4.2V, 0~4.00A	50mV	55%
GC30□-1P1J	5.6V, 0~3.99A	50mV	70%
GC30□-11P1J	7.2V, 0~3.00A	80mV	74%
GC30□-2P1J	8.4V, 0~3.00A	80mV	76%
GC30□-4P1J	14.3V, 0~2.09A	100mV	78%
GC30□-5P1J	16.8V, 0~1.60A	100mV	78%
GC30□-6P1J	28.6V, 0~1.04A	150mV	80%
\square = B / U / E; B: IEC320-C8, U: American 2P, E: European 2P			

120W Green Adaptor with Charging Function



- · Universal AC input / Full range
- · Built-in active PFC function
- No load power consumption < 0.5W
- · High efficiency up to 91%
- · 2 stage charging characteristic
- · Cooling by free air convection
- · 3 pole AC inlet IEC320-C14
- · Class I power (with earth pin)
- · Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- · 2 color LED indicator for charging status
- · 2 years warranty

EMC standards	90~110% constant currer 105%~135% shut down Con to recover I/P-O/P: 3kVAC -30~+70°C (refer to dera UL1012 (GC120Axx-AD1 approved EN55022 class B, FCC p EN61000-3-2,3, EN61000	nt, auto-recovery D/P voltage, re-power uting curve) only), EN60950-1 art 15 class B, 0-4-2,3,4,5,6,8,11
Length of output cable Standard DC plug		
Model No.	Output	Effi.

Model No.	Output	Effi.
GC120A12-□	13.6V, 7.5A	86.5%
GC120A24-□	27.2V, 4.42A	90.0%
GC120A48-□	54.4V, 2.21A	91.0%
\square = R7B / AD1;	R7B= 4 pin power din, AD1= Anderson	connector

160W Green Adaptor with Charging Function



- · Universal AC input / Full range
- · Built-in active PFC function
- No load power consumption < 1W
- · High efficiency up to 94%
- 2 stage charging characteristic
- · Cooling by free air convection
- · 3 pole AC inlet IEC320-C14
- · Class I power (with earth pin)
 - Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- · 2 color LED indicator for charging status
- · 2 years warranty

AC input voltage range 85~264VAC; 120~370VDC Overload protection 90%~110% constant current, auto-recovery Over voltage protection 105%~135% rated output voltage, re-power on to recover Withstand voltageI/P-O/P: 3kVAC Working temperature30~+70°C (refer to derating curve) Safety standards UL1012(GC160Axx-AD1 only), EN60950-1 approved EMC standardsEN55022 class B, FCC part 15 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 Length of output cable 120cm of UL2464, 18AWGx 4C

Standard DC plug Power DIN 4P with lock type (R7B)

Model No.	Output	Effi.
GC160A12-□	13.6V, 10.0A	89.0%
GC160A24-□	27.2V, 5.89A	92.5%
GC160A48-□	54.4V, 2.95A	94.0%
\square = R7B / AD1;	R7B= 4 pin power din,	AD1= Anderson connector

218W & 326W Green Adaptor with Charging Function



	GC220	GC330	
Case (mm)	210x85x46	220x95x46	
Connector	°	-	

- · Universal AC input / Full range
- · Built-in active PFC function
- No load power consumption < 1W
- High efficiency up to 93.5%
- 2 stage charging characteristic
- Cooling by free air convection
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage /
- Over temperature
- · Fully enclosed plastic case
- 2 color LED indicator for charging status
- · 2 years warranty

AC input voltage range 90~264VAC; 127~370VDC Overload protection90%~110% constant current, auto-recovery

Over voltage protection 105%~135% rated output voltage, re-power on to recover Withstand voltage I/P-O/P: 3kVAC

Working temperature-30~+60°C (refer to output derating curve) Safety standards GC220: TUV EN60950-1, UL1012 (GC220Axx-AD1 only) approved GC330: TUV EN60950-1, UL60950-1 approved

EMC standards EN55022 class B, FCC part 15 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 Length of output cable100cm of UL2464, 16AWGx 4C

Standard DC plug ... GC220: Power DIN 4P with lock type (R7B) GC330: 4P/6.35mm pitch, AMP 1-480702-0 (power supply side);

AMP 1-480703-0 (customer side)

GC220 Series	7 iiii 7 100700 0 (oddioinioi oldo)		
Model No.	Output	Effi.	
GC220A12-□	13.6V, 13.5A	89.0%	
GC220A24-□	27.2V, 8A	92.5%	
GC220A48-□	54.4V, 4A	93.0%	
= R7B/ AD1 :	R7B= 4 pin power din. AD1:	= Anderson connector	

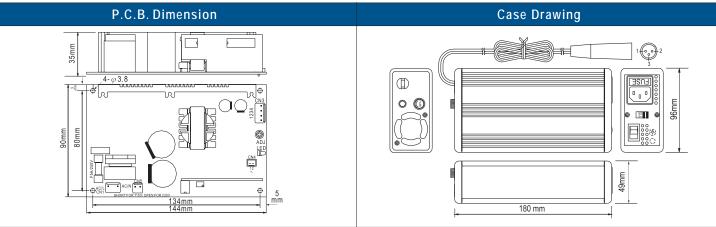
* GC330 Series		
Model No.	Output	Effi.
GC330A36-C4P	40.8V, 8A	93.5%
GC330A48-C4P	54.4V, 6A	93.5%

Charger

120W Battery Charger







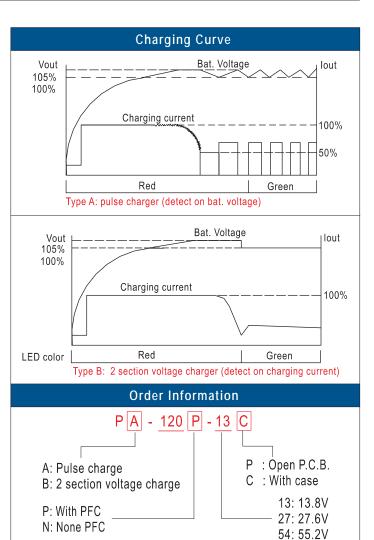
Features

- · AC input range selectable by switch
- Passive PFC, PF> 0.65(option)
- · Protection for deeply discharged battery
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Charger for lead-acid batteries
- Built-in ON/OFF power switch
- 3 poles AC inlet with fuse holder
- Charging type can be selected (option)
- 2 color LED loading indicator
- EN60335 approved
- · Low cost, high reliability
- Open frame models available (without safety approval)
- 2 years warranty

General Specification

AC input voltage range 88~132VAC/ 176~264VAC selectable by switch AC inrush current (max.)Cold start, 25A at 115VAC, 50A at 230VAC Overload protection90%~110% constant current limiting ,autorecovery Over voltage protection 108%~127% rated output voltage Setup, rise, hold up time1000ms, 50ms, 16ms at full load and 230VAC Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute Working temperature-10~+45°C, derating curve may vary for different models Safety standardsUL60950-1, TUV EN60950-1, EN60335-1, EN60335-2-29(except for 55.2V) approved EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3 DC output cable 6 ft. of SPT-2, 18AWGx2C Standard output connector ... XLR 3P, male type Packing1.1kg; 16pcs / 17.9kg / 1.47CUFT (without PFC) 1.24kg; 16pcs / 20.1kg / 1.47CUFT (with PFC)

Model No.	Output	Tol.	R&N	Effi.
P□-120□-13□	13.8V, 0~7.2A	±3~±8.5%	150mV	73%
P□-120□-27□	27.6V, 0~4.3A	±1~±8.0%	200mV	79%
P□-120□-54□	55.2V, 0~2.2A	$\pm 1 \sim \pm 7.5\%$	250mV	79%



108~360W Power Supply or Battery Charger



108W~216W Desktop Power Supply or Charger





- · AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage / Over temp.
- · 3 color LED loading indicator
- Battery under / over voltage and polarity protection (ESC only)
- Cooling by free air convection (120W)
- Built-in DC fan with fan ON/OFF auto control at 50°C (240W)
- 2 years warranty

AC input voltage range 88~132VAC / 176~264VAC selectable by switch
AC inrush current Cold start, 40A at 230VAC
DC adjustment range 13.5V: 12~15V, 27V: 24~30V, 54V: 48~56V
Overload protection 105%~135% fold back current limiting, auto-recovery
Over voltage protection115%~135% rated output voltage
Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
Working temperature10~+60°C (refer to output derating curve)
Safety standardsCSA 61010-1 approved
EMC standardsEN55022/B, EN61000-3-2,3, EN61000-4-2,3,4
Packing1.38kg ; 8pcs / 12.0kg / 1.1CUFT (120W)
1.5kg : 8pcs / 13.0kg / 1.1CUFT (240W)

* ESC/P-120 Series

Model No.	Output	Tol.	R&N	Effi.
ESC-120-13.5	13.5V, 0~8A	±2%	120mV	81%
ESC-120-27	27V, 0~4A	±1%	150mV	83%
ESC-120-54	54V, 0~2A	±1%	400mV	84%
ESP-120-13.5	13.5V, 0~8A	±2%	120mV	81%
ESP-120-27	27V, 0~4A	±1%	150mV	83%
ESP-120-54	54V, 0~2A	±1%	400mV	84%

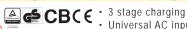
* ESC/P-240 Series

Model No.	Output	Tol.	R&N	Effi.
ESC-240-13.5	13.5V, 0~16A	±2%	120mV	81%
ESC-240-27	27V, 0~8A	±1%	150mV	84%
ESC-240-54	54V, 0~4A	±1%	400mV	85%
ESP-240-13.5	13.5V, 0~16A	±2%	120mV	81%
ESP-240-27	27V, 0~8A	±1%	150mV	84%
ESP-240-54	54V, 0~4A	±1%	400mV	85%

230W Single Output Battery Charger









- Universal AC input / Full range
- Built-in active PFC function
- Protections:
- Short circuit / Over voltage / Over temperature
- 2 color LED loading indicator
- · Built-in remote ON-OFF control
- · Fan ON/OFF control
- · Low cost, high realiability
- 190x 96x 49 mm · 2 years warranty

AC input voltage range 90~264VAC; 127~370VDC AC inrush current (max.) .. Cold start, 50A at 230VAC

Over voltage protection 102%~125% shut off, re-power on to recover Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG:0.5kVAC Working temperature -20~+50°C (refer to output derating curve) Safety standards UL1012(PB-230xx-AD1 only), EN60950-1 approved EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11,

EN61000-3-2,3

Packing 1.21Kg; 12pcs / 15.5kg / 1.29CUFT

Model No.	Output	Effi.
PB-230-12□	14.4V, 0~16A	81.5%
PB-230-24□	28.8V, 0~8A	85.5%
PB-230-48□	57.6V, 0~4A	86.0%
□= Blank AD1: Blank=	XIR 4P male type Al	01= Anderson connector

300W Single Output Battery Charger





- · Optimal 3 stage charging characteristic
- · AC input range selectable by switch
- · Passive PFC compliance to EN61000-3-2 class A (option)
- · Protections:

Reverse polarity / Short circuit / Over voltage / Over temperature

- Charger for lead-acid batteries
- · Built-in ON/OFF power switch
- 3 poles AC inlet (IEC 320-C14)
- · 2 color LED loading indicator
- · Built-in remote ON/OFF control
- · Cooling by free air convection
- · 3 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch AC inrush current (max.) .. Cold start, 60A at 230VAC Over voltage protection108%~125% rated output voltage Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute Working temperature -10~+50°C (refer to output derating curve) Safety standards IEC60335-2-29 CB approval by TUV (except for 48V), UL60950-1 approved EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3 (P type)

Model No.	Output (20 min.)	1	(Continuous at 25°C)	Effi.	
PB-300□-12	14.4V, 20.85A	/	12.5A	85%	
PB-300□-24	28.8V, 10.50A	/	6.25A	86%	
PB-300□-48	57.6V, 5.3A	/	3.20A	88%	
□ = P: with PFC; I	N: non PFC				

360W Single Output Battery Charger





- · Optimal 3 stage charging characteristic
- · AC input range selectable by switch
- · Passive PFC compliance to EN61000-3-2 class A (option)
- · Protections:

Reverse polarity / Short circuit / Over voltage / Over temperature

- Charger for lead-acid batteries
- · Built-in ON/OFF power switch
- · 3 poles AC inlet (IEC 320-C14)
- · 2 color LED loading indicator
- · Built-in remote ON/OFF control
- · Cooling by built-in DC fan
- · 3 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch AC inrush current (max.) .. Cold start, 60A at 230VAC

Over voltage protection 108%~125% rated output voltage

Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute Working temperature -20~+60°C (refer to output derating curve)

Safety standards IEC60335-2-29 CB approval by TUV

(except for 48V), UL60950-1 approved EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11,

EN61000-3-2,3 (P type) Packing 1.5kg; 6pcs / 10kg / 0.95CUFT

Model No. Effi. Output PB-360□-12 14.4V, 24.3A 85% PB-360□-24 28.8V, 12.5A 86% PB-360□-48 57.6V, 6.25A

□= P: with PFC; N: non PFC

Charger



600W Single Output Battery Charger





- 2/3/8 stage smart charger for lead-acid batteries
- Microprocessor controlled power management
- · Universal AC input / Full range
- Built-in active PFC function
- Protections:

Reverse polarity / Short circuit / Over voltage / Over temperature

- Built-in temp. compensation function
- Status signal sent by relay contacts
- 3 color LED loading indicator
- Built-in remote ON-OFF control
- · Fan speed control (depend on charging current)
- · Charging curve can be modified for different battery applications (optional)
- · 3 years warranty

Model No.	Output	Effi.
Packing	2.2kg; 6pcs / 14.2kg / 1.76CUFT	
Connection	IEC inlet for input; copper pillars f	or output
	EN61000-4-2,3,4,5,6,8,11	
EMC standards	.EN55022 class B, EN61000-3-2,3	,
	EN60950-1(48V only), UL1012 ap	proved
Safety standards $\dots \dots$	TUV EN60335-1, EN60335-2-29(e	except for 48V),
Working temperature	-20~+60°C (refer to output derati	ng curve)
· ·		
Over voltage protection \ldots	112%~125% shut off, re-power or	to recover
AC inrush current (max.) \dots	Cold start, 50A at 230VAC	
AC input voltage range	90~264VAC; 127~370VDC	
	AC inrush current (max.) Over voltage protection Withstand voltage Working temperature Safety standards EMC standards Connection Packing	ConnectionIEC inlet for input; copper pillars f Packing2.2kg; 6pcs / 14.2kg / 1.76CUFT

Model No.	Output	EIII.
PB-600-12	14.4V, 0~40.0A	86%
PB-600-24	28.8V, 0~21.0A	87%
PB-600-48	57.6V, 0~10.5A	89%

600W Single Output Battery Charger





- · 3 stage charging characteristic
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- No load power consumption < 0.5W at remote OFF
- High efficiency up to 95.5%
- Protections: Short circuit / OVP / OTP
- Fanless design, cooling by free air convection
- Vo and Io can be adjusted through internal potentiometer
- Aluminum case and filling with heat-conducted glue
- Withstand 5G vibration test
- Charger for lead-acid batteries
- · 3 color LED loading indicator
- 5 years warranty

AC input voltage range 90~264VAC; 127~370VDC AC inrush current (max.) .. Cold start, 70A at 230VAC DC adjustment range -20%~+5% rated output voltage Current adjustment range ..50%~100% rated output current

Over voltage protection 112%~142% shut off, re-power on to recover Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC Working temperature -40~+70°C (refer to output derating curve) Safety standards UL60950-1, TUV EN60950-1 approved

EMC standardsEN55022 conduction class B, radiation class A EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11

Connection+7P/11mm pitch terminal block with cover

Model No.	Output	Effi.
HEP-600C-12	14.4V, 0~35.0A	93.5%
HEP-600C-24	28.8V, 0~21.0A	94.5%
HEP-600C-48	57.6V, 0~10.5A	95.5%

1000W Single Output Battery Charger





- · 2/3/8 stage smart charger for lead-acid **batteries**
- Microprocessor controlled power
- management · Universal AC input / Full range
- · Built-in active PFC function
- · Protections:

Reverse polarity / Short circuit / Over voltage / Over temperature

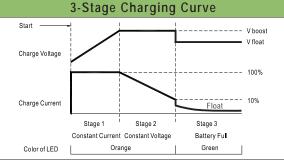
- Built-in temp. compensation function
- Can be connected to 2 battery banks
- Status signal sent by relay contacts
- 3 color LED loading indicator
- · Built-in remote ON/OFF control
- · Fan speed control
- · Charging curve can be modified for different battery applications (optional)
- · 3 years warranty

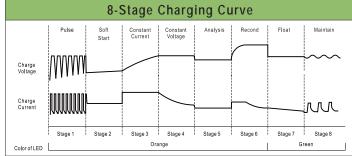
AC input voltage range 90~264VAC; 127~370VDC AC inrush current (max.) Cold start, 50A at 230VAC Over voltage protection 110%~125% shut off, re-power on to recover Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, 1 minute Working temperature-20~+60°C (refer to output derating curve) Safety standards UL60950-1, TUV EN60950-1 approved EMC standards EN55022 class B conducted, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3 ConnectionIEC inlet for input; copper pillars for output

Model No.	Output	Effi.
PB-1000-12	14.4V, 60.0A	85%
PB-1000-24	28.8V, 34.7A	88%
PB-1000-48	57.6V, 17.4A	89%

Built-in Charging Curves for PB-600 and PB-1000

2-Stage Charging Curve Charge Voltage Charge Current Stage 2 Constant Current Constant Voltage Battery Full Orange Color of LED





19" Rack Power

1000~8000W Single Output





RCP-1000 CASE: 952A 295x 127x 41mm



RCP-1U CASE: 959A 483.6x 350.8x 44mm

Features

- · Universal AC input / Full range
- Built-in 5V/0.3A auxiliary power
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Forced air cooling by built-in DC fan
- High power density 10.7W/inch³
- 1U low profile: 44mm
- \cdot Vo can be trimmed between 90% ~ 110% of the rated output voltage
- Active current sharing up to 3000W (3 units) in one 19" rack, 3 racks max. can be operated in parallel (up to 8 units)
- · Remote control for single unit
- · Built-in remote sense function
- Hot-swap operation
- · Internal OR-ing diode
- · AC OK and DC OK signal output
- Optional I²C serial data bus
- · 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Order No.	RCP-1000
AC input voltage range	90~264VAC, 127~370VDC
AC inrush current (max.)	Cold start, 50A at 230VAC
DC adjustment range	±3% rated output voltage
Overload protection	105%~125% constant current limiting, auto-recovery
Over voltage protection	110%~135% rated output voltage
Leakage current	<1.1mA at 230VAC
Setup, rise, hold up time	1000ms, 60ms, 16ms at full load and 230VAC
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-F/G: 0.7kVDC
Working temperature	-20~+60°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level
Packing	1.93kg (RCP-1000, single unit); 3.9kg (RCP-1U, empty rack)

❖ Single unit — 1000W

Model No.	Output	Tol.	R&N	Effi.	
RCP-1000-12	12V, 0~60A	±1%	150mV	81%	
RCP-1000-24	24V, 0~40A	±1%	200mV	87%	
RCP-1000-48	48V, 0~21A	±1%	300mV	89%	

Control and Monitor Unit for RCP-1000

CE



- 1U low profile
- 19-inch rack mounting
- 1²C decoder, control and monitor up to 3 RCP-1000-□-C units
- Suitable for all kinds of RCP-1000 output (12V,24V,48V)
- Digital meters for output voltage, output current, and internal temperature on front panel
- Potentiometer for adjusting output voltage of RCP-1000 unit on front panel
- Relay contacts and LED indicators for AC fail, DC fail, and over temperature warning
- · Removable fixing accessory
- 3 years warranty

AC input voltage range 90~264VAC, 127~370VDC
AC inrush currentCold start, 30A at 115VAC, 50A at 230VAC
Relay contact rating 30VDC, 1A
Working temperature20~+60°C (refer to output derating curve)
Safety standardsDesign refer to UL60950-1, TUV EN60950-1
Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:0.5kVAC
Isolation resistanceI/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
Contection Screw DIN terminal for AC input and relay
contact output; D-Type right angle 25 positions
for communication port

Model No.	Application	
RCP-MU	Control and monitor RCP-1000 series	

19" Rack Power 2000~18000W Single Output





RCP-2000 CASE: 974A 295x 127x 41mm



Features

- · Universal AC input / Full range
- · Withstand 300VAC surge for 5 secs.
- Built-in 5V/0.3A, 12V/0.8A auxiliary power
- · Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Forced air cooling by built-in DC fan
- Internal OR-ing FET
- · High power density 21.4W/inch3
- 1U low profile: 44mm

- · Active current sharing up to 6000W (3 units) in one 19" rack, 3 racks max. can be operated in parallel (up to 9 units)
- · Remote control for single unit
- · Built-in remote sense function
- · Hot-swap operation
- · PMBus serial communication
- · AC OK and DC OK signal, fan fail, OTP alarm signal
- · 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Order No.	RCP-2000
AC input voltage range	90~264VAC, 127~370VDC
AC inrush current (max.)	Cold start, 50A at 230VAC
DC adjustment range	-12%~+15% rated output voltage
Overload protection	105%~125% constant current limiting, shut off after 5 sec., re-power on to recover
Over voltage protection	120%~145% rated output voltage
Leakage current	<1.1mA at 230VAC
Setup, rise, hold up time	1500ms, 60ms, 10ms at full load and 230VAC
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-F/G: 0.7kVDC
Working temperature	-40~+70°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level
Packing	2kg (RCP-2000, single unit); 4.18kg (RKP-1U, empty rack)

* Single unit - 2000W

-					
Model No.	Output	Tol.	R&N	Effi.	
RCP-2000-12	12V, 0~100A	± 2 %	150mV	86.0%	
RCP-2000-24	24V, 0~80A	±1%	200mV	90.5%	
RCP-2000-48	48V, 0~42A	±1%	300mV	92.0%	

Order Information

DC input voltage range 12~15VDC

Single Unit: RCP-2000- 12 Output voltage(12V/24V/48V) CMU1: with RKP-CMU1 Rack: RKP-1U I - CMU1 -: without RKP-CMU1 I : AC inlet(IEC320-C20) T : Terminal block

Control and Monitor Unit for RCP-2000

ϵ



147.5x 127x 41 mm



Parallel Pc Sus A CBCE

• 1U low profile

RKP-CMU1

- · 19-inch rack mounting
- Control and monitor up to 32 RCP-2000 units
- · Front panel LCD and buttons for on-site service without PC
- · Alarm/event log with time and date
- · Easy wire connections on rear side · 3 years warranty
- · Windows-based PC communication software
- · USB, RS-232 or Ethernet interface for PC connection locally or remote monitoring and control via GSM modem
- 4 user programmable relay outputs for traditional remote or warning

DC input current	.1A at 12VDC, 0.8A at 15VDC
Output relay contact	4 user programmable relay
Working temperature	-25~+70°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved for
	RKP-1U□-CMU1
Withstand voltage	. I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-FG:0.7kVDC for
	RKP-1U□-CMU1; O/P-FG:0.7kVDC for RKP-CMU1
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC
	for RKP-1U□-CMU1;
	O/P-FG:100M Ohms/500VDC for RKP-CMU1
EMC standards	EN55022 class B, EN61000-3-2,3,
	EN61000-4-2,3,4,5,6,8,11, EN61000-6-1 light
	industry level

Model No.	Application
RKP-CMU1	Control and monitor RCP-2000 series (single unit of RKP-CMU1)
RKP-1U□-CMU1	Control and monitor RCP-2000 series (19" rack with RKP-CMU1)

Modular Series 450W/650W/1000W Configurable Power



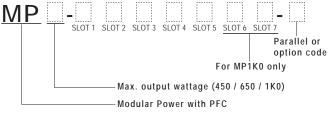


Description

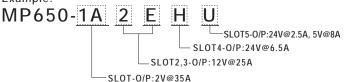
Modular series are switching power supplies with modular design that consist of two stages: front-end PFC and output modules. Using ZVS (Zero Voltage Switching) technology to realize the power factor correction, the line input is rectified into high DC voltage (around 390VDC) by the front-end PFC stage, and then the DC output modules will transfer the operating voltage into all kinds of DC output voltages from 1.6V~53V. Right now we offer 75W, 150W, 210W, 300W, 360W single output modules and 100W dual output modules to fulfill all kinds of applications up to 14 isolated outputs.

There are millions of combinations available for the Modular series. Users can configure the DC outputs they need and get the fastest solution for their own power requirement with safety and EMC certificates. No more NRE / safety application charges and long period of waiting for certificates! Providing standard products as usual, MEAN WELL offer you a revolutionary standard power solution that fulfills your custom-made request!

Output Configuration Guide



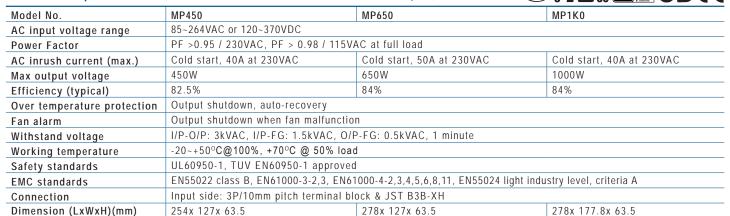




Features

- · Millions of output configuration is available
- ZVS technology to reduce power dissipation and improve efficiency
- Universal AC input / Full range
- Built-in active PFC compliance to EN61000-3-2
- Built-in constant current limiting circuit for single output modules
- · Remote control on each output module
- · Remote sense on each single output module (MS-75 / 150 / 210 / 300 / 360)
- Short circuit / Overload / Over voltage protections for all modules
- Parallel function for MS-210 (up to 5 units), MS-300/360 (up to 3 units)
- Margining control function (MS-210 / 360)
- · Cooling by built-in DC fan with fan alarm function
- · Additional 12V/0.1A auxiliary output for remote control
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Modular Series



■ MS-75: 1-SLOT single output (75W max.)

Item Code	Output	★ Peak I	Vdc adj.	Tol.	R&N.
L	3.3V, 0~15A	17.3A	2.6~4.0V	±2%	80mV
M	5V, 0~15A	17.3A	4.0~6.0V	±2%	80mV
N	12V, 0~6.3A	7.30A	9.0~13.2V	±1%	150mV
0	15V, 0~5.0A	5.80A	13.2~16.8V	±1%	150mV
Р	24V, 0~3.2A	3.70A	20.0~26.4V	±1%	150mV
Q	48V, 0~1.6A	1.80A	40.0~53.0V	±1%	250mV

■ MS-150: 1-SLOT single output (150W max.)

Item Code	Output	★ Peak I	Vdc adj.	Tol.	R&N.
Α	2V, 0~25A	30.0A	1.6~2.6V	±3%	50mV
В	3.3V, 0~25A	30.0A	2.6~4.0V	±2%	80mV
С	5V, 0~25A	30.0A	4.0~6.0V	±2%	80mV
D	7.5V, 0~18A	20.7A	6.0~9.0V	±2%	100mV
Е	12V, 0~13A	15.0A	9.0~13.2V	±1%	150mV
F	15V, 0~10A	11.5A	13.2~16.8V	±1%	150mV
G	18V, 0~8.5A	9.80A	16.8~20.0V	±1%	150mV
Н	24V, 0~6.5A	7.50A	20.0~26.4V	±1%	150mV
I	27V, 0~5.8A	6.70A	25.0~31.0V	±1%	150mV
J	33V, 0~4.7A	5.40A	30.0~40.0V	±1%	250mV
K	48V, 0~3.2A	3.68A	40.0~53.0V	±1%	250mV

■ MS-210: 1-SLOT parallelable single output (210W max.)

Item Code	Output	★ Peak I	Vdc adj.	Tol.	R&N.
1A	2V, 0~35A	38.5A	1.6~2.6V	±3%	70mV
1B	3.3V, 0~35A	38.5A	2.6~4.0V	±2%	80mV
1C	5V, 0~35A	38.5A	4.0~6.0V	±2%	80mV
1D	7.5V, 0~28A	32.2A	6.0~9.0V	±2%	100mV
1E	12V, 0~17.5A	20.1A	9.0~13.2V	±1%	150mV
1F	15V, 0~14A	16.1A	13.2~16.8V	±1%	150mV
1G	18V, 0~11.6A	13.4A	16.8~20.0V	±1%	150mV
1H	24V, 0~8.75A	10.1A	20.0~26.4V	±1%	150mV
11	27V, 0~7.8A	9.00A	25.0~31.0V	±1%	150mV
1J	33V, 0~6.4A	7.40A	30.0~40.0V	±1%	250mV
1 K	48V, 0~4.4A	5.10A	40.0~53.0V	±1%	250mV

■ MS-300: 2-SLOT parallelable single output (300W max.)

Item Code	Output	★ Peak I	Vdc adj.	Tol.	R&N.
2A	2V, 0~50A	57.5A	1.6~2.6V	±3%	80mV
2B	3.3V, 0~50A	57.5A	2.6~4.0V	±2%	80mV
2C	5V, 0~50A	57.5A	4.0~6.0V	±2%	80mV
2D	7.5V, 0~40A	46.0A	6.0~9.0V	±2%	100mV
2E	12V, 0~25A	29.0A	9.0~13.2V	±1%	150mV
2F	15V, 0~20A	23.0A	13.2~16.8V	±1%	150mV
2G	18V, 0~16.7A	19.2A	16.8~20.0V	±1%	150mV
2H	24V, 0~12.5A	14.4A	20.0~26.4V	±1%	150mV
21	27V, 0~11.2A	12.9A	25.0~31.0V	±1%	200mV
2J	33V, 0~9.1A	10.5A	30.0~40.0V	±1%	250mV
2K	48V, 0~6.3A	7.2A	40.0~53.0V	±1%	300mV
2E 2F 2G 2H 2I 2J	12V, 0~25A 15V, 0~20A 18V, 0~16.7A 24V, 0~12.5A 27V, 0~11.2A 33V, 0~9.1A	29.0A 23.0A 19.2A 14.4A 12.9A 10.5A	9.0~13.2V 13.2~16.8V 16.8~20.0V 20.0~26.4V 25.0~31.0V 30.0~40.0V	±1% ±1% ±1% ±1% ±1%	150r 150r 150r 150r 200r 250r

MS-360: 2-SLOT parallelable single output (360W max.)

Item Code	Output	≯ Peak I	Vdc adj.	Tol.	R&N.
3A	2V, 0~60A	69.0A	1.6~2.6V	±3%	80mV
3B	3.3V, 0~60A	69.0A	2.6~4.0V	±2%	100mV
3C	5V, 0~60A	69.0A	4.0~6.0V	±2%	100mV
3D	7.5V, 0~48A	55.2A	6.0~9.0V	±2%	100mV
3E	12V, 0~30A	34.5A	9.0~13.2V	±1%	150mV
3F	15V, 0~24A	27.6A	13.2~16.8V	±1%	150mV
3G	18V, 0~20A	23.0A	16.8~20.0V	±1%	150mV
3H	24V, 0~15A	17.3A	20.0~26.4V	±1%	150mV
3 I	27V, 0~13.4A	15.5A	25.0~31.0V	±1%	200mV
3J	33V, 0~11A	12.7A	30.0~40.0V	±1%	250mV
3K	48V, 0~7.5A	8.7A	40.0~53.0V	±1%	300mV

■ MD-100: 1-SLOT isolated dual output (100W max.)

Item Code	Output	Vdc adj.	Tol.	R&N.	Max.
R	5V, 2.0~10A	4.75~5.5V	±3%	100mV	90.0W
	5V, 0.0~8.0A	4.75~5.5V	±3%	100mV	
S	5V, 2.0~10A	4.75~5.5V	±3%	100mV	100.4W
	12V, 0.0~5.8A	11.4~13.2V	±3%	150mV	
T	5V, 2.0~10A	4.75~5.5V	±3%	100mV	101.0W
	15V, 0.0~4.7A	14.2~16.5V	±3%	150mV	
U	24V, 0.5~3.0A	22.8~26.4V	±3%	200mV	100.0W
	5V, 0.0~10A	4.75~5.5V	±3%	100mV	
V	24V, 0.6~3.0A	22.8~26.4V	±2%	240mV	100.8W
	12V, 0.0~4.7A	11.4~13.2V	±3%	120mV	
W	12V, 1.0~5.0A	11.4~13.2V	±2%	120mV	100.8W
	12V, 0.0~5.8A	11.4~13.2V	±3%	120mV	
Χ	15V, 1.0~4.7A	14.2~16.5V	±2%	150mV	100.5W
	15V, 0.0~4.7A	14.2~16.5V	±3%	150mV	

15V, 0.0~4	.7A 14.2~16.5V ±3% 150mV
Parallel Connection	n Accessory
FAP-001 (For MS-300, 2 units)	
FAP-002 (For MS-300, 3 units)	E S
FAP-003 (For MS-210, 2 units)	15 53
FAP-004 (For MS-210, 3 units)	
FAP-005 (For MS-210, 4 units)	
FAP-006 (For MS-210, 5 units)	
FAP-007 (For MS-360, 2 units)	
FAP-008 (For MS-360, 3 units)	+ +
Series Connection	Accessory
FAS-001 (For 1-slot modules: MS-75/150, MD-100)	2
FAS-002 (For 2-slot modules: MS-300)	
FAS-003 (For 1-slot modules: MS-210)	EE

- ★Peak I: 35% duty cycle maximum within every 10 seconds. Average output power should not exceed the rated power.
- ★Please use MP450-CNPOQ, MP650-1A2EHU, MP1K0-2C2CEKL-1.....etc. as the order code. For more detail information about technical issues, please refer to the user manual.
- ★Please refer to the user manual for more detail information about parallel connection and the parallel codes. About series connection, please contact us or your local MEAN WELL distributor for more details.

FAS-004 (For 2-slot modules: MS-360)



350W Single Output









- · AC input 180~264VAC only
- · Withstand 300VAC surge input for 5 sec
- · Semi-potted and design against rain splash
- High efficiency up to 90%
- · Protections:

Short circuit / Overload / Over voltage / Over temperature

- Cooling by free air convection
- · LED indicator for power on
- Suitable for channel letter applications
- · 3 years warranty

AC input voltage range 180~264VAC; 254~370VDC
AC inrush current Cold start, 90A at 230VAC
DC adjustment range ±10% rated output voltage
Overload protection 110%~160% hiccup mode, auto-recovery
Over voltage protection 12V: 13.8~16.2V; 24V: 27.6~32.4V; 36V: 41.4~46.8V;
48V: 57.6~67.2V hiccup mode, auto-recovery
Setup, rise, hold up time1500ms, 200ms, 20ms at full load and 230VAC
Withstand voltageI/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature30~+60°C (refer to output derating curve)
Safety standards UL60950-1, CQC GB4943.1 approved

Model No.	Output	Tol.	R&N	Effi.
NEW ERP-350-12	12V, 0~26.7A	±1%	150mV	87%
ERP-350-24	24V, 0~14.6A	±1%	150mV	89%
ERP-350-36	36V, 0~9.7A	±1%	240mV	90%
ERP-350-48	48V, 0~7.3A	±1%	240mV	90%

200W & 300W Single Output

- 115VAC or 230VAC AC input
- · Cooling by conduction
- 1U low profile: 31mm
- · Conformal coating



- · Protections: Short circuit / Overload / Over voltage / Over temperature
- LED indicator for power on
- · 2 years warranty



AC input voltage range 90~132VAC(A-Type); 180~264VAC(B-Type)
AC inrush current Cold start, 80A(HSN-200); 90A(HSN-300)at
230VAC
DC adjustment range 4.2V:3.6~4.4V; 5V:4.5~5.5V
Overload protection 105%~185% hiccup mode, auto-recovery
Over voltage protection 4.2V: 4.6~5.4V, 5V: 5.7~7.0V for HSN-200;
4.2V: 4.7~5.7V, 5V: 5.7~7.0V for HSN-300
Setup, rise, hold up time \dots 1500ms, 100ms, 20ms at 230VAC and full load (HSN-200)
2500ms, 100ms, 10ms at 230VAC and full load (HSN-300)
Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature25~+70°C (HSN-200); -20~+70°C (HSN-300)
Safety standards UL60950-1 approved

	,		- F F		
•	* HSN-200 Series				
	Model No.	Output	Tol.	R&N	Effi.
	HSN-200-4.2A	4.2V, 0~30A	±2%	150mV	86.5%
	HSN-200-4.2B	4.2V, 0~40A	±2%	150mV	88%
	HSN-200-5A	5V, 0~30A	±2%	150mV	86.5%
	HSN-200-5B	5V, 0~40A	±2%	150mV	88%
,	* HSN-300 Series				
	Model No.	Output	Tol.	R&N	Effi.
	HSN-300-4.2A	4.2V, 0~50A	±3%	150mV	85%
	HSN-300-4.2B	4.2V, 0~60A	±3%	150mV	85%
	HSN-300-5A	5V, 0~50A	±3%	150mV	86%
	HSN-300-5B	5V, 0~60A	±3%	150mV	86%

200W Single Output

c**FL**°us



- · AC input 180~264VAC only
- · Withstand 300VAC surge input for 5 sec
- · Conformal coating
- · High efficiency up to 87% (NEL-200)
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- 1U low profile: 30mm
- · LED indicator for power on
- · Suitable for moving sign applications
- · 2 years warranty

AC input voltage range 180~264VAC; 254~370VDC
AC inrush current Cold start, 70A at 230VAC
DC adjustment range 2.8V:2.5~3V; 4.2V:3.6~4.4V; 5V:4.5~5.5V
Overload protection 105%~140% hiccup mode, auto-recovery
Over voltage protection 2.8V: 3.22~3.78V; 4.2V: 4.6~5.4V; 5V: 5.6~7V
hiccup mode, auto-recovery

Setup, rise, hold up time 2500ms, 50ms, 20ms at full load and 230VAC Withstand voltageI/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC Working temperature -20~+60°C (refer to output derating curve) Safety standards UL60950-1 approved

Model No.	Output	Tol.	R&N	Effi.
NEL-200-2.8	2.8V, 0~40A	+3%, -4.5%	150mV	85%
NEL-200-4.2	4.2V, 0~40A	+3%, -4.5%	150mV	87%
NEL-200-5	5V, 0~40A	±3%	150mV	87%

300W & 400W Single Output

- · AC input 180~264VAC only
- Withstand 300VAC surge input for 5 seconds
- Conformal coating
- · High efficiency up to 86% (NEL-300) High efficiency up to 84% (NEL-400)
- 1U low profile: 30mm
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- · Forced air cooling by built-in DC fan
- · LED indicator for power on
- · Suitable for moving sign applications
- · 2 years warranty





AC input voltage range 180~264VAC; 254~370VDC
AC inrush current Cold start, 70A at 230VAC
DC adjustment range 2.8V:2.5~3V; 4.2V:3.6~4.4V; 5V:4.5~5.5V
Overload protection 105%~140% hiccup mode, auto-recovery
Over voltage protection 2.8V: 3.22~3.78V; 4.2V: 4.6~5.4V; 5V: 5.6~7V
hiccup mode, auto-recovery
Setup, rise, hold up time 2500ms, 50ms, 20ms at full load and 230VAC
Setup, rise, hold up time 2500ms, 50ms, 20ms at full load and 230VAC Withstand voltage
Withstand voltage

* NEL-300 Series

NEL-300-2.8 2.8V, 0~60A +3%, -4.5% 150mV 81% NEL-300-4.2 4.2V, 0~60A +3%, -4.5% 150mV 85% NEL-300-5 5V, 0~60A ±3% 150mV 86%	Model No.	Output	Tol.	R&N	Effi.
	NEL-300-2.8	2.8V, 0~60A	+3%, -4.5%	150mV	81%
NEL-300-5 5V. 0~60A ±3% 150mV 86%	NEL-300-4.2	4.2V, 0~60A	+3%, -4.5%	150mV	85%
	NEL-300-5	5V, 0~60A	±3%	150mV	86%

* NEL-400 Series

NEL-400 JULIUS					
Model No.	Output	Tol.	R&N	Effi.	
NEL-400-2.8	2.8V, 0~80A	+3%, -4.5%	150mV	79%	
NEL-400-4.2	4.2V, 0~80A	+3%, -4.5%	150mV	83%	
NEL-400-5	5V. 0~80A	+3%	150mV	84%	



150W & 200W Single Output with PFC Function

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds (HSP-150)
- Built-in active PFC function
- Conformal coating
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection for 150W and 200W with 30CFM forced air(HSP-150); cooling by conduction(HSP-200)
- 1U low profile
- Built-in remote sense(HSP-150)
- LED indicator for power on
- Suitable for moving sign applications
- 3 years warranty















	264VAC; 127~370VDC
	start, 70A at 230VAC
	2.35~2.75V, 3.8V: 3.4~4.2V, 5V: 4.5~5V (HSP-150);
4.2V	: 3.6~4.4V, 5V: 4.5~5.5V (HSP-200)
Overload protection 1109	%~180% hiccup mode, auto-recovery
Over voltage protection 2.5V	: 3.2~3.7V, 3.8V: 4.7~5.7V, 5V: 5.7~7V (HSP-150);
4.2V	: 4.6~5.4V, 5V: 5.6~7V (HSP-200)
Setup, rise, hold up time 2000	ms, 100ms, 16ms at full load and 230VAC (HSP-150)
2000	ms, 200ms, 16ms at full load and 230VAC (HSP-200)
Withstand voltage I/P -	O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature30~	+70°C (refer to output derating curve)
Safety standards UL6	0950-1, TUV EN60950-1 approved
EMC standards EN5	5022 class B, EN61000-3-3
* HSP-150 Series EN6	1000-4-2,3,4,5,6,8,11

* HSP-150 Series

Model No.	Output(Rated/Peak)	Tol.	R&N	Effi.
HSP-150-2.5	2.5V, 0~30A / 40A	±2%	80mV	86%
HSP-150-3.8	3.8V, 0~30A / 40A	±2%	100mV	88%
HSP-150-5	5V, 0~30A / 40A	±2%	100mV	90%

* HSP-200 Series

Model No.	Output	Tol.	R&N	Effi.
HSP-200-4.2	4.2V, 0~40A	±2%	150mV	88.0%
HSP-200-5	5V, 0~40A	±2%	150mV	88.5%

250W Single Output with PFC Function





- · Universal AC input / Full range
- · Built-in active PFC function
- Conformal coating
- High efficiency up to 87%
- · Protections:
- Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- 1U low profile: 41mm
- Built-in remote sense function
- LED indicator for power on
- Suitable for moving sign applications
- · 3 years warranty

AC input voltage range 85~264VAC; 120~370VDC
DC adjustment range 2.5V: 2.3~2.8V; 3.6V: 3.24~3.96V; 5V: 4.5~5.5V
AC inrush current Cold start, 70A at 230VAC
Overload protection 105%~135% hiccup mode, auto-recovery
Over voltage protection 2.5V: 2.88~3.38V; 3.6V:4.14~4.86V; 5V: 5.75~6.75V
shut down O/P voltage, re-power on to recover
Setup, rise, hold up time 3000ms, 50ms, 16ms at full load and 230VAC
Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature40~+70°C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3, EN55024,
EN61000-4-2,3,4,5,6,8,11, EN61000-6-2
Packing 0.97kg ; 16pcs / 16.5kg / 0.87CUFT

Model No.	Output	Tol.	R&N	Effi.	
HSP-250-2.5	2.5V, 0~50A	±2%	100mV	79%	
HSP-250-3.6	3.6V, 0~50A	±2%	100mV	83%	
HSP-250-5	5V 0~50A	+2%	100mV	87%	

300W Single Output with PFC Function





- CBCE . Universal AC input / Full range Withstand 300VAC surge input for 5 seconds
 - Built-in active PFC function
 - Conformal coating
 - High efficiency up to 87%
 - Protections:

Short circuit / Overload / Over voltage / Over temperature

- · Cooling by conduction 1U low profile: 31mm
- · LED indicator for power on
- Suitable for moving sign applications
- 3 years warranty

- 5 years warranty
AC input voltage range 90~264VAC; 127~370VDC
DC adjustment range 2.8V: 2.5~3V; 4.2V: 3.6~4.4V; 5V: 4.5~5.5V
AC inrush current Cold start, 60A at 230VAC
Overload protection 105%~135% hiccup mode, auto-recovery
Over voltage protection 2.8V: 3.22~3.78V; 4.2V: 4.6~5.4V; 5V: 5.7~7.0V
shut down O/P voltage, re-power on to recover
Setup, rise, hold up time 2000ms, 100ms, 8ms at full load and 230VAC
Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature30~+70°C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1, CCC GB4943 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11, GB9254

Mod	lel No.	Output	Tol.	R&N	Effi.	
HSP-3	300-2.8	2.8V, 0~60A	±2%	110mV	80%	
HSP-3	300-4.2	4.2V, 0~60A	±2%	150mV	85%	
HSP-3	300-5	5V, 0~60A	±2%	150mV	87%	

190W & 240W Dual Output with PFC Function



HDP-240 215x 115x 36 mm

HDP-190 215x 115x 36 mm

CBCE . Universal AC input / Full range Built-in active PFC function

- Conformal coating
- High efficiency up to 86%
- Protections:

Short circuit / Overload / Over voltage / Over temperature

Fanless design (HDP-190); Forced air cooling by built-in DC fan (HDP-240)

- 1U low profile: 36mm
- Suitable for moving sign applications
- · 3 years warranty

AC input voltage range 90~135VAC, 127~190VDC or 180~264VAC, 254~370VDC DC adjustment range V1: 3.6~4V; V2: 2.5~3V AC inrush current Cold start, 45A at 230VAC Overload protection V1+V2: 105%~150%, V2: 125%~170% hiccup mode, auto-recovery Over voltage protection V1: 4.37~5.13V, V2: 3.22~3.78V shut down O/P voltage, re-power on to recover Setup, rise, hold up time 1000ms, 50ms, 16ms at full load and 230VAC Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC Working temperature -30~+70°C (refer to output derating curve) Safety standards UL60950-1, TUV EN60950-1, CCC GB4943 approved EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2, GB9254

AUDD 100 Corios

HDP-190 Series						
Model No.	Output	Tol.	R&N	Effi.	Max.	
HDP-190	3.8V, 0~40A	±2%	100mV	86%	192W	
	2.8V.0~22A	+2%	100mV			

1kg; 15pcs / 16kg / 0.7CUFT (HDP-240)

* HDP-240 Series

11D1 240 3C110	,3					
Model No.	Output	Tol.	R&N	Effi.	Max.	
HDP-240	3.8V, 0~50A	±2%	100mV	84%	241W	
	2.8V.0~27.5A	+2%	100mV			

Harsh Environment

100~185W Single Output





Features

- Universal AC input / 90~305VAC
- · Built-in active PFC function
- · High efficiency up to 94%
- Fanless design, cooling by free air convection
- Vo and Io can be adjusted through internal potentiometer
- · Aluminum case and filling with heat-conducted glue
- -55~+70°C wide operating range
- Meet 6kV surge immunity level
- · Withstand 10G vibration test
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Multiple models for choice:
- A-Type: Standard model, IP65 rated. Vo and Io can be adjusted through internal potentiometer

Blank-Type: Optional model, IP68 rated

- Suitable for general industrial applications at high/low temperature, high dust, high moisture, high vibration, or outdoor environment
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



HEP-185

Model No.		HEP-100	HEP-150	HEP-185	
AC input volt	age range	90~305VAC, 127~431VDC			
AC inrush cu	rrent (max.)	Cold start, 60A at 230VAC	Cold start, 65A at 230VA	AC .	
DC adjustme	nt range	-10%~+10% rated output voltage (A-Type only	()		
Current adjus	stment range	60%~100% rated output current adjustment by internal potentiometer(A-Type only)		50%~100% rated output current adjustment by internal potentiometer(A-Type only)	
Over current	protection	105%~125% constant current limiting, auto-re	covery		
Over voltage	protection	108%~135% rated output voltage			
Setup, rise, h	nold up time	500ms, 50ms, 16ms at full load and 230VAC			
Withstand vo	Itage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC			
Working temp	perature	-55~+70°C (refer to output derating curve)			
Safety standa	ards	UL60950-1 approved; Design refer to TUV EN60950-1			
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			
0	Input	UL rated, SJTW 18AWGx3C(30cm)			
Connection	Output	SJTW 14AWGx2C(30cm)			
Dimension (L	xWxH)(mm)	220x 68x 38.8	228x 68x 38.8		

100W			H	IEP-100
Model No.	Output	Tol.	R&N	Effi.
HEP-100-12[A]	12V, 0~8.34A	±1.0%	120mV	92%
HEP-100-15[A]	15V, 0~6.67A	±1.0%	150mV	92%
HEP-100-24[A]	24V, 0~4.00A	±1.0%	150mV	93%
HEP-100-36[A]	36V, 0~2.65A	±1.0%	200mV	93%
HEP-100-48(A)	48V, 0~2.00A	±1.0%	200mV	93%
HEP-100-54[A]	54V, 0~1.77A	±1.0%	200mV	93%
[[]] = A or Blank, A:	standard model(IF	P65), Blank:	optional mo	del(IP68)

Model No.	Output	Tol.	R&N	Effi.
HEP-185-12[A]	12V, 0~13.0A	±2.5%	150mV	91.5%
HEP-185-15[A]	15V, 0~11.5A	±2.0%	150mV	92.0%
HEP-185-24[A]	24V, 0~7.80A	$\pm 1.0\%$	150mV	93.5%
HEP-185-36[A]	36V, 0~5.20A	±1.0%	200mV	93.5%
HEP-185-48[A]	48V, 0~3.90A	±1.0%	200mV	94.0%
HEP-185-54[A]	54V, 0~3.45A	±1.0%	200mV	94.0%
[]] = A or Blank,	A: standard model(IP)	65), Blank:	optional m	odel(IP68)

150W			H	HEP-150
Model No.	Output	Tol.	R&N	Effi.
HEP-150-12[A]	12V, 0~12.5A	±2.5%	150mV	91.5%
HEP-150-15[A]	15V, 0~10.0A	$\pm 2.0\%$	150mV	92.0%
HEP-150-24[A]	24V, 0~6.30A	±1.0%	150mV	93.0%
HEP-150-36[A]	36V, 0~4.20A	±1.0%	200mV	93.5%
HEP-150-48[A]	48V, 0~3.20A	±1.0%	200mV	94.0%
HEP-150-54[A]	54V, 0~2.80A	±1.0%	200mV	94.0%
= A or Blank, A	: standard model(IF	65), Blank:	optional mo	del(IP68)



185W

Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.

Harsh Environment

240~600W Single Output





Features

- Universal AC input / 90~305VAC
- · Built-in active PFC function
- No load power consumption <0.5W at remote OFF(HEP-600)
- High efficiency up to 96%
- Fanless design, cooling by free air convection
- · Vo and Io can be adjusted through internal potentiometer
- · Aluminum case and filling with heat-conducted glue
- -55~+70°C wide operating range (HEP-240/320);
 -40~+70°C wide operating range (HEP-600)
- Meet 6kV surge immunity level (HEP-240/320)
- · Withstand 10G vibration test
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Multiple models for choice (HEP-240/320):
- A-Type: Standard model, IP65 rated. Vo and Io can be adjusted through internal potentiometer

Blank-Type: Optional model, IP68 rated

- Suitable for general industrial applications at high/low temperature, high dust, high moisture, high vibration, or outdoor environment
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		HEP-240	HEP-320	HEP-600		
AC input volt	age range	90~305VAC; 127~431VDC				
AC inrush cu	rrent (max.)	Cold start, 75A at 230VAC	Cold start, 70A at 230VAC			
DC adjustme	nt range	-10%~+10% rated output voltage (A-Type only)	-15%~+5% rated output voltage		
Current adjus	stment range	50%~100% rated output current ad	justment by internal potentiometer	(HEP-240/320 for A-Type only)		
Over current	protection	105%~125% constant current limit	ing, auto-recovery			
Over voltage	protection	108%~135% rated output voltage				
Setup, rise, h	nold up time	500ms, 80ms, 15ms at full load and 230VAC				
Withstand vo	Itage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temp	perature	-55~+70°C (refer to output derating curve)		-40~+70°C(refer to output derating curve)		
Safety standa	ards	UL60950-1 approved ; Design refe	r to TUV EN60950-1	UL60950-1, TUV EN60950-1 approved		
EMC standar	ds	EN55022 class B, EN61000-3-2,3,	EN61000-4-2,3,4,5,6,8,11			
0	Input	UL rated, SJTW 18AWGx3C (30cm)	2.7D / 11mm nitch terminal block with cover		
Connection	Output	SJTW 14AWGx2C (30cm)		3+7P / 11mm pitch terminal block with cover		
Dimension (LxWxH)(mm)		244.2x 68x 38.8	252x 90x 43.8	280x 144x 48.5		

HEP-240 Series Rus CB (Under Development)

Model No.	Output	Tol.	R&N	Effi.
HEP-240-12[A]	12V, 0~16.0A	±2.5%	150mV	90.0%
HEP-240-15[A]	15V, 0~15.0A	±2.0%	150mV	90.0%
HEP-240-24[A]	24V, 0~10.0A	±1.0%	150mV	92.5%
HEP-240-36[A]	36V, 0~6.70A	±1.0%	250mV	92.5%
HEP-240-48[A]	48V, 0~5.00A	±1.0%	250mV	93.0%
HEP-240-54[A]	54V, 0~4.45A	±1.0%	350mV	93.5%
[]] = A or Blank, A	: standard model(I	P65), Blank	: optional m	odel(IP68)

HEP-320 Series RcBCE Under Development

Model No.	Output	Tol.	R&N	Effi.	
HEP-320-12[A]	12V, 0~22.0A	±3.0%	150mV	91.0%	
HEP-320-15[A]	15V, 0~19.0A	±2.0%	150mV	92.5%	
HEP-320-24[A]	24V, 0~13.34A	±1.0%	150mV	94.0%	
HEP-320-36[A]	36V, 0~8.90A	±1.0%	250mV	94.5%	
HEP-320-48[A]	48V, 0~6.70A	$\pm 1.0\%$	250mV	95.0%	
HEP-320-54[A]	54V, 0~5.95A	±1.0%	350mV	95.0%	
= A or Blank	A: standard model(I)	P65) Blank	ontional m	indel(IP68)	

Model No.	Output	Tol.	R&N	Effi.
HEP-600-12	12V, 0~40A	±3.0%	150mV	93.0%
HEP-600-15	15V, 0~36A	±2.0%	150mV	94.0%
HEP-600-20	20V, 0~28A	±1.5%	150mV	95.0%
HEP-600-24	24V, 0~25A	±1.0%	150mV	95.0%
HEP-600-30	30V, 0~20A	±1.0%	200mV	95.5%
HEP-600-36	36V, 0~16.7A	±1.0%	250mV	95.5%
HEP-600-42	42V, 0~14.3A	±1.0%	250mV	96.0%
HEP-600-48	48V, 0~12.5A	±1.0%	250mV	96.0%
HEP-600-54	54V, 0~11.2A	±1.0%	350mV	96.0%



To satisfy customers is our goal -

- High Quality
 - Prompt Delivery
- Low CostBest Service

Security Series

40~100W Single Output





Features

- Single output with battery charger (UPS function)
- · Universal AC input / Full range
- Can be installed on DIN rail TS-35/7.5 or 15
- Protections:
- Short circuit / Overload /Over voltage / Battery low protection / Battery reverse polarity protection by fuse
- · Alarm signal for AC OK and battery low
- · Cooling by free air convection
- Pass LPS (DRC-40/60)
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	DRC-40	DRC-60	DRC-100	
AC input voltage range	90~264VAC; 127~370VDC			
AC inrush current (max.)	Cold start, 30A at 115VAC, 60A	at 230VAC		
DC adjustment range	CH1,13.8V: 12~15V; 27.6V:24~3	80V		
Overload protection	Overload protection 105%~150% hiccup mode, auto-recovery			
Over voltage protection	Over voltage protection 105%~135% rated output voltage			
Setup, rise, hold up time	400ms, 50ms, 50ms at full load	and 230VAC	2400ms, 50ms, 50ms at full load and 230VAC	
Withstand voltage	I/P-O/P:3kVAC, I/P-FG: 2kVAC	, O/P-FG: 0.5kVAC		
Working temperature	-30~+70°C (refer to output der	rating curve)		
Safety standards	UL60950-1, TUV EN60950-1 app	proved		
EMC standards	EN55022 class B, EN61000-3-2	3, EN61000-4-2,3,4,5,6,8,11		
Connection	I/P:3 poles, O/P: 8 poles screw	DIN terminal	I/P:3 poles, O/P: 10 poles screw DIN terminal	
Case No.	962A		973A	
Dimension (LxWxH)(mm)	40x 90x 100		55x 90x 100	

40W	DRC-40	NEW			
Model No.	Output	Tol.	R&N	Effi.	Max.
DRC-40A	13.8V, 0~2.9A	±1%	120mV	86%	40W
	13.8V, 0~1.0A	(Charger)			
DRC-40B	27.6V, 0~1.45A	±1%	200mV	87%	40W
	27.6V, 0~0.5A	(Charger)			

60W				DRC-60	NEW
Model No.	Output	Tol.	R&N	Effi.	Max.
DRC-60A	13.8V, 0~4.3A	±1%	120mV	86%	59W
	13.8V, 0~1.5A	(Charger)			
DRC-60B	27.6V, 0~2.15A	±1%	200mV	88%	59W
	27.6V, 0~0.75A	(Charger)			

100W		D	RC-100	NEW	
Model No.	Output	Tol.	R&N	Effi.	Max.
DRC-100A	13.8V, 0~7A	±1%	120mV	87%	97W
	13.8V, 0~2.5A	(Charger)			
DRC-100B	27.6V, 0~3.5A	±1%	240mV	89%	97W
	27.6V, 0~1.25A	(Charger)			



Customer Satisfaction —

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.



Products -

 \cdot One Stop Shopping \cdot Total Solution



Best products also need best services.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.



48hrs delivery-

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs

Security Series

35~160W Single Output





Features

- Single output with battery charger (UPS function)
- Universal AC input / Full range
- PCB and enclosed type with metal case available
- Compact size
- Built-in active PFC function (PSC-160)
- Protections:
 Short circuit / Overload / Over voltage
- Battery low protection / Battery reverse polarity protection by fuse
- Alarm signal for AC OK and battery low
- Cooling by free air convection
- 100% full load, burn-in test
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



DCO 100

Model No.		PSC-35	PSC-60	PSC-100	PSC-160		
AC input voltag	je range	90~264VAC; 127~370VDC					
AC inrush curre	ent (max.)	Cold start, 40A at 230VAC	60A at 230VAC	70A at 230VAC			
DC adjustment	range	CH1, 13.8V: 12~15V; 27.6V: 24~2	29V				
Overload prote	ction	105%~150% hiccup mode, auto-re	ecovery				
Over voltage protection		CH1, 105%~135%, shut off, re-power on to recover	CH1, 105%~135%, hiccup mode, auto recovery Shut off, re-power on to recover		n to recover		
Withstand voltage		I/P-O/P:3kVAC, I/P-FG: 2kVAC, 1 minute	·		I/P-O/P:3kVAC, I/P-FG: 2kVAC, 1 minute		
Working tempe	rature	-30~+70°C	-20~+70°C (refer to output derating curve)				
Safety standard	ds	UL60950-1, TUV EN60950-1 approved					
EMC standards		EN55022 class B, EN61000-3-2,3	, EN61000-4-2,3,4,5,6,8,11				
Connection		3+6P/3.96mm pitch, JST: B3P/B6P-VH		3+8P/3.96mm pitch, JST: B3P/B8P-VH, B			
Dimension	РСВ Туре	84.6x 50.8x 24	101.6x 50.8x 29	127x 76.2x 31	152.4x 76.2x 32		
(LxWxH)(mm)	Enclosed Type	86.4x 59.6x 30	103.4x 62x 37	130x 85x 37	155.4x 85x 37		

1001//

35W			PS	SC-35	NEW
Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-35A□	13.8V, 0~2.6A	±1%	120mV	84%	36W
	13.8V, 0~0.9A	(Charger)			
PSC-35B□	27.6V, 0~1.3A	±1%	240mV	86%	36W
	27.6V, 0~0.45A	(Charger)			
□ = blank, -C	; Blank: PCB Type	, -C: Enclose	ed Type		

10000				P3	C-100	
Model No.	Output	Tol.	R&N	Effi.	Max.	
PSC-100A□	13.8V, 0~7.0A	±1%	100mV	86%	100W	
	13.8V, 0~2.5A	(Charger)				
PSC-100B□	27.6V, 0~3.50A	±1%	100mV	88%	101W	
	27.6V, 0~1.25A	(Charger)				
□ = blank, -C; Blank: PCB Type, -C: Enclosed Type						

60W				P	SC-60
Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-60A□	13.8V, 0~4.3A	±1%	120mV	84%	59W
	13.8V, 0~1.50A	(Charger)			
PSC-60B□	27.6V, 0~2.15A	±1%	240mV	84%	59W
	27.6V, 0~0.75A	(Charger)			
□= blank, -0	C; Blank: PCB Typ	e, -C: Enclos	ed Type		

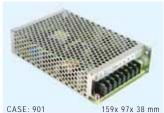
160W				PS	C-160
Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-160A□	13.8V, 0~11.6A	±1%	150mV	88%	160W
	13.8V, 0~4A	(Charger)			
PSC-160B□	27.6V, 0~5.8A	±1%	240mV	90%	160W
	27.6V, 0~2A	(Charger)			
□ = blank, -C; Blank: PCB Type, -C: Enclosed Type					

Security Series 55~155W Single and Dual Output



55W 1~2 Output with Battery Charger

c**91** us △ CBC€



- · Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- · Battery low protection (except for ADS series)
- DC alarm signal (optional)
- · Cooling by free air convection
- Fixed switching frequency at 45kHz
- · Approvals: UL / CUL / TUV / CB / CE
- 100% full load burn-in test
- · 2 years warranty

AC input voltage range 88~264VAC; 124~370VDC
AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
DC adjustment range 12V, 24V: ±10%
13.8V: 12~14.5V; 27.6V: 24~29V
Overload protection 105%~150% hiccup mode, auto-recovery
Over voltage protection CH1: 105%~135% rated output voltage
Setup, rise, hold up time \dots 800ms, 50ms, 80ms at full load and 230VAC
Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1minute
Working temperature 10^+60° C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
Connection 8P/ 8.25mm pitch terminal block
Packing 0.57kg ; 24pcs / 13.7kg / 0.75CUFT

* Single Output with 5V, 4A DC-DC Converter

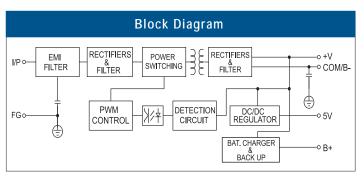
Model No.	Output	Tol.	R&N	Effi.	Max.
ADS-5512	12V, 0~4.0A	±1%	100mV	76%	51W
	5V, 0~4.0A	±3%	100mV		
ADS-5524	24V, 0~2.5A	±1%	100mV	79%	58W
	5V, 0~4.0A	±3%	100mV		

* Single Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
AD-55A	13.8V, 0~4.0A	±1%	100mV	71%	51W
	13.4V, 0~0.23A	(Charger)			
AD-55B	27.6V, 0~2.0A	±1%	100mV	74%	54W
	26.5V, 0~0.16A	(Charger)			

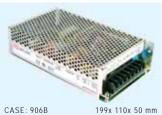
* Dual Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
ADD-55A	13.8V, 0~3.50A	±1%	100mV	71%	53W
	5V, 0~4.00A	±3%	100mV		
	13.4V, 0~0.23A	(Charger)			
ADD-55B	27.6V, 0~2.00A	±1%	150mV	74%	55W
	5V, 0~4.00A	±3%	150mV		
	26.5V, 0~0.16A	(Charger)			



155W 1~2 Output with Battery Charger and PFC Function

P: Mus A CB(E



- Universal AC input / Full range
- · PF>0.92@230VAC and full load
- Protections: Short circuit / Overload / Over voltage
- Battery low protection (except for ADS series)
- · Cooling by free air convection
- · Fixed switching frequency at 134kHz
- Approvals: UL / CUL / TUV / CB / CE
- · 100% full load burn-in test
- · 2 years warranty

AC input voltage range 88-264VAC; 124-370VDC
AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
DC adjustment range 12V, 24V, 48V: ±10%
13.8V: 12~14.5V; 27.6V: 24~29V; 54V: 48~58V
Overload protection CH1,2: 105%~135%, charger: 0.51~0.9A;
constant current limiting, auto-recovery
Over voltage protection CH1: 115%~135% rated output voltage
Setup, rise, hold up time 1000ms, 90ms, 24ms at full load and 230VAC
Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1minute
Working temperature10~+60°C (refer to output derating curve)
Safety standards UL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
Connection 8P/ 9.5mm pitch terminal block
Packing 1.0kg ; 16pcs / 16.0kg / 0.95CUFT

* Single Output with 5V, 3A DC-DC Converter

Model No.	Output	Tol.	R&N	Effi.	Max.
ADS-15512	12V, 0~12.5A	±2%	150mV	77%	153W
	5V, 0~3.00A	±3%	100mV		
ADS-15524	24V, 0~6.50A	±1%	150mV	82%	154W
	5V, 0~3.00A	±3%	100mV		
ADS-15548	48V, 0~3.20A	±1%	240mV	82%	154W
	5V, 0~3.00A	±5%	100mV		

* Single Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
AD-155A	13.8V, 0~11.5A	±2%	150mV	80%	152W
	13.3V, 0~0.50A	(Charger)			
AD-155B	27.6V, 0~5.50A	±1%	150mV	84%	152W
	27.1V, 0~0.50A	(Charger)			
AD-155C	54.0V, 0~2.70A	±1%	240mV	84%	157W
	53.5V, 0~0.50A	(Charger)			

* Dual Output with Battery Charger (UPS Function)

buar output with Battery Charger (0F3 Function)					
Model No.	Output	Tol.	R&N	Effi.	Max.
ADD-155A	13.8V, 0~10.5A	±1%	150mV	78%	153W
	5V, 0~3.00A	±3%	100mV		
	13.3V, 0~0.50A	(Charger)			
ADD-155B	27.6V, 0~5.00A	±1%	200mV	81%	153W
	5V, 0~3.00A	±3%	100mV		
	27.1V, 0~0.50A	(Charger)			
ADD-155C	54.0V, 0~2.50A	±1%	240mV	81%	150W
	5V, 0~3.00A	±5%	100mV		
	53.5V, 0~0.20A	(Charger)			

Security Series/ATX Power



35~75W Single Output

- · Universal AC input / Full range
- · Protections:

Short circuit / Overload / Over voltage / Battery reverse polarity protection by fuse

- · Cooling by free air convection
- No load power consumption
- · Suitable for installation in metallic or non-metallic system enclosure
- Temperature compensation function
- · LED indicator for power on
- · 2 years warranty



P: Nus A CBCE

240x 83x 40 mm (250W) · 260x 83x 40 mm (300W)

- · Universal AC input / Full range
- · Low profile for 1U/2U rack system
- · Built-in active PFC function
- · Protections: Short circuit / Overload / Over voltage
- · With power good and fail signal output
- · Forced air cooling by built-in DC fan
- · PS-ON signal input
- · 2 years warranty

AC input voltage range 90~264VAC, 127~370VDC
Setup, rise, hold up time 800ms, 20ms, 16ms at 230VAC
Overload protection 105%-150% shut off, re-power on to recover
Over voltage protection110%~140% rated output voltage for CH1~CH3 $$
Withstand voltageI/P-O/P: 1.5kVAC, I/P-FG:2kVAC, 1minute
Working temperature10~+60°C (refer to output derating curve)
Safety standardsUL60950-1, TUV EN60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11

250~300W Industrial ATX PC Power Supply

Model No.	Output	Tol.	R&N	Effi.	Max.
IPC-250	3.3V, 0~20A	±5%	50mV	75%	250W
	5V, 1~25A	±5%	50mV		
	12V, 1~15A	±7%	120mV		
	-5V, 0~0.5A	±8%	100mV		
	-12V, 0.1~1.0A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		
IPC-300A	3.3V, 0~20A	±5%	50mV	75%	300W
	5V, 1~30A	±5%	50mV		
	12V, 1~18A	±7%	120mV		
	-5V, 0~0.5A	±8%	100mV		
	-12V, 0.1~1.0A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		
IPC-300B	24V, 0~3.0A	±5%	240mV	80%	300W
	5V, 1~30A	±5%	50mV		
	12V, 1~18A	±7%	120mV		
	-5V, 0~0.5A	±8%	100mV		
	-12V, 0.1~1.0A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		

c**¶**us CB (€



AC input voltage range 85~264VAC; 120~370VDC
DC adjustment range 95%~115% rated output voltage
Overload protection 120%~165%, hiccup mode, auto-recovery
Over voltage protection120%~140%, rated output voltage
Setup, rise, hold up time \dots 500ms, 30ms, 50ms at full load and 230VAC
Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
Working temperature20~+60°C (refer to output derating curve)
Safety standards UL60950-1 approved
EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
ConnectionI/P: 3 poles, O/P: 2 poles screw terminal

* SCP-35 Series

	Model No.	Output	Tol.	R&N	Effi.	Max.
	SCP-35-12	13.8V, 0~2.6A	±2%	120mV	83%	36W
	SCP-35-24	27.6V, 0~1.4A	±1%	200mV	86%	39W
٠	SCP-50 Serie	S				
	Model No.	Output	Tol.	R&N	Effi.	Max.
	SCP-50-12	13.8V, 0~3.6A	±2%	120mV	81%	50W
	SCP-50-24	27.6V, 0~1.8A	±1%	200mV	85%	50W
4	SCP-75 Serie	S				
	Model No.	Output	Tol.	R&N	Effi.	Max.
	SCP-75-12	13.8V, 0~5.4A	±2%	120mV	81%	75W
	SCP-75-24	27.6V, 0~2.7A	±1%	200mV	85%	75W



Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.



We provide specification, drawing, test report and more information, please visit our website -

http://www.meanwell.com



We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs

DC/DC Converter 0.5~1W Module Type



0.5W DC-DC Regulated Single Output

FC(E



- 1000VDC I/O isolation
- Internal SMD technology
- · Built-in EMI filter
- · Protection: Short circuit
- · Cooling by free air convection
- Non-conductive plastic case
- · Dual in line package
- 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

1W DC-DC Unregulated Single Output

FCCE



- 1000VDC I/O isolation
- Internal SMD technology
- · Built-in EMI filter
- · Protection: Short circuit
- · Cooling by free air convection
- · Non-conductive plastic case
- · Dual in line package
- 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

Mechanism	Pin Configuration		
Unit: mm(Inch) 9.9 (0.39) 016 10 BOTTOM VIEW 011 60 010 70 0 9 80 2.54 (0.10) 8.4 (0.33)	Pin No. Output 1 & 16 +Vin 6 & 11 -Vout 7 & 10 +Vout 8 & 9 -Vin		

Voltage set point accuracy.... ±2% (typical)

Line regulation ±1% (max.)

Load regulation ±1% (max.)@10~100% load

Input reflected ripple120mVp-p Efficiency 60% (typical)

Short circuit protection Continuous, auto-recovery

Switching frequency 50kHz (min.) I/O isolation voltage 1000VDC (min.)

I/O isolation resistance $100M\Omega$ (min.)@ 500VDC

Isolation capacitance 80pF (max.)

Working temperature-25°C to +60°C (no derating), +71°C@80% load

Storage temperature-25°C to +105°C Temp. Coefficient ±0.03% / °C (max.) Case materialnon-conductive plastic

EMC Compliance to EN55022 class B,

EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SRS-0505	$5\pm10\%$	5	100	100
SRS-0509	$5\pm10\%$	9	56	100
SRS-0512	$5\pm10\%$	12	42	100
SRS-0515	5±10%	15	34	100
SRS-1205	12±10%	5	100	100
SRS-1209	12±10%	9	56	100
SRS-1212	12±10%	12	42	100
SRS-1215	$12\pm10\%$	15	34	100
SRS-2405	24±10%	5	100	100
SRS-2409	$24\pm10\%$	9	56	100
SRS-2412	$24\pm10\%$	12	42	100
SRS-2415	$24\pm10\%$	15	34	100
SRS-4805	48±10%	5	100	100
SRS-4809	48±10%	9	56	100
SRS-4812	$48\pm10\%$	12	42	100
SRS-4815	$48\pm10\%$	15	34	100

Mechanism	Pin Configuration
Unit: mm(inch) 9.9 (0.39) O16 10 BOTTOM VIEW O11 60 O10 70 O9 80 2.54 (0.10) 8.4 (0.33)	Pin No. Output 1 & 16 +Vin 6 & 11 -Vout 7 & 10 +Vout 8 & 9 -Vin

Voltage set point accuracy ... ± 2% (max.)

Line regulation $\pm 1.2\%$ (max.) for 1% input variation

Load regulation ±8% (max.)@20~100% load

Input reflected ripple 120mVp-p Efficiency 83% (typical) Short circuit protection Momentary Switching frequency 50kHz (min.) I/O isolation voltage 1000VDC (min.)

I/O isolation resistance 100MΩ (min.)@ 500VDC

Isolation capacitance 80pF (max.)

Working temperature -25°C to +60°C (no derating), +71°C@80% load

Storage temperature-25°C to +105°C Temp. Coefficient ±0.03% / °C (max.) Case material non-conductive plastic

EMC Compliance to EN55022 class B,

EN61000-4-2,3,4,5,6,8, FCC part15 class B

EN01000-4-2,5,4,5,0,0, 1 GC part13 class b					
	Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
	SUS01L-05	5±10%	5	200	100
	SUS01L-09	5±10%	9	111	100
	SUS01L-12	5±10%	12	84	100
	SUS01L-15	$5\pm10\%$	15	67	100
	SUS01M-05	12±10%	5	200	100
	SUS01M-09	12±10%	9	111	100
	SUS01M-12	12±10%	12	84	100
	SUS01M-15	12±10%	15	67	100
	SUS01N-05	$24\pm10\%$	5	200	100
	SUS01N-09	$24\pm10\%$	9	111	100
	SUS01N-12	$24\pm10\%$	12	84	100
	SUS01N-15	24±10%	15	67	100
	SUS010-05	48±10%	5	200	100
	SUS010-09	$48\pm10\%$	9	111	100
	SUS010-12	$48\pm10\%$	12	84	100
	SUS010-15	48±10%	15	67	100

1W Module Type



iguration

-Vin +Vin COM

-Vout NC +Vout NC NC NC

Output Dual

1W DC-DC Unregulated Single Output

r**FN**°us



- 1000VDC I/O isolation
- Internal SMD technology
- · Protection: Short circuit
- · Cooling by free air convection
- · Non-conductive plastic case
- · SMD package style
- · 100% full load burn-in test
- · Low cost, high reliability
- · 1 year warranty

1W DC-DC Unregulated Single and Dual Output





- · 3000VDC I/O isolation
- Internal SMD technology
- · Protection: Short circuit
- · Cooling by free air convection
- · Non-conductive plastic case
- · SMD package style
- · 100% full load burn-in test
- · Low cost, high reliability
- · 1 year warranty

Mechanism	Pin Configuration
Unit: mm(inch) 12.7 7.62 8 7 6 5 9 7 6 5 1 1 2 3 4 2.54 1 2 3 4 2.54 2 3 4 2 5 4 1 0.5	Pin No. Output 1 -Vin 2 +Vin 3 NC 4 -Vout 5 +Vout 6 NC 7 NC 8 NC

Voltage	set	point	accuracy	+8%	(max.)	١
vonago	301	pomit	accuracy	 ± 0 /0	(IIIan.,	,

Line regulation ±1.2% (max.) for 1% input variation

Load regulation ±8% (max.)@20~100% load

Input reflected ripple100mVp-p Efficiency 75% (typical) Short circuit protection Momentary Switching frequency100kHz (typical)

I/O isolation voltage 1000VDC (min.) I/O isolation resistance 100M Ω (min.)@ 500VDC

Working temperature -40°C to +85°C Storage temperature-40°C to +105°C Temp. Coefficient ±0.03% / °C (max.) Case material non-conductive plastic Safety standards UL60950-1 approved

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SBT01L-05	$5\pm10\%$	5	200	100
SBT01L-09	$5\pm10\%$	9	111	100
SBT01L-12	$5\pm10\%$	12	84	100
SBT01L-15	$5\pm10\%$	15	67	100
SBT01M-05	12±10%	5	200	100
SBT01M-09	12±10%	9	111	100
SBT01M-12	12±10%	12	84	100
SBT01M-15	12±10%	15	67	100



We provide specification, drawing, test report and more information, please visit our website

http://www.meanwell.com



Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors

Mechanism	Pin Co	onfigu
Unit: mm(inch) 15.24 12.7 12.11 10 8 7 H H H H H H H H H H H 1.27 2.54 1.2 3 5 6 2.54	Pin No. 1 2 3 5 6 7 8 10	Our Single -Vin +Vin NC -Vout NC NC +Vout NC
	11	NC NC

Voltage set point accuracy±8% (max.)

Line regulation ±1.2% (max.) for 1% input variation

Load regulation ±8% (max.)@20~100% load

Efficiency 79% (typical) Short circuit protectionMomentary Switching frequency 100kHz (typical) I/O isolation voltage 3000VDC (min.)

I/O isolation resistance 100M Ω (min.)@ 500VDC

Working temperature -40°C to +85°C Storage temperature-40°C to +105°C Temp. Coefficient $\pm 0.03\%$ / °C (max.) Case material non-conductive plastic

Safety standards UL60950-1, CSA C22.2 approved

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SFT01L-05	$5\pm10\%$	5	200	100
SFT01L-09	$5\pm10\%$	9	111	100
SFT01L-12	$5\pm10\%$	12	84	100
SFT01L-15	$5\pm10\%$	15	67	100
SFT01M-05	12±10%	5	200	100
SFT01M-12	12±10%	12	84	100
SFT01M-15	12±10%	15	67	100

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DET01L-05	$5\pm10\%$	±5	±100	100
DET01L-09	5±10%	±9	±56	100
DET01L-12	5±10%	±12	±42	100
DET01L-15	$5\pm10\%$	±15	±33	100
DET01M-15	12±10%	±15	±33	100



Customer Satisfaction -

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal

1W Module Type



1W DC-DC Regulated Single Output

FCCE



- 1000VDC I/O isolation
- Internal SMD technology
- · Built-in EMI filter
- · Protection: Short circuit / Overload
- Cooling by free air convection
- · Non-conductive plastic case
- · Single in line package
- 100% full load burn-in test
- · Low cost, high reliability
- 2 years warranty

1W DC-DC Unregulated Single Output • 1500VDC I/O isolation

FCCE



- Operating temperature range
- -40~85°C without derating · Internal SMD technology
- · Built-in EMI filter
- · Protection: Short circuit
- · Cooling by free air convection
- · Non-conductive plastic case
- Dual in line package for SMA01
- · 100% full load burn-in test
- · Industry standard pinout
- 2 years warranty

Mechanism	Pin Configuration
19.6 (0.77) Unit: mm(inch) FRONT VIEW 3.81 (0.15) 5.08 (0.20) 7.1 (0.28) 1 2 4 6 BOTTOM VIEW	Pin No. Output 1 +Vout 2 -Vin 4 -Vout 6 +Vout
1.2 (0.05)	

Voltage set point accuracy ... ±2% (typical) Line regulation ±1% (max.)

Load regulation ±1% (max.)@10~100% load

Efficiency 65% (typical)

Overload protection>110% hiccup mode, auto-recovery

Short circuit protection Continuous, auto-recovery

Switching frequency 50kHz (min.) I/O isolation voltage 1000VDC (min.) I/O isolation resistance $100M\Omega$ (min.) Isolation capacitance 80pF (max.)

Working temperature -25~+71°C (refer to output derating curve)

Storage temperature-25°C to +105°C Temp. Coefficient ±0.03% / °C (max.) Case material non-conductive plastic

EMC Compliance to EN55022 class B,

EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPR01L-05	$5\pm10\%$	5	200	100
SPR01L-09	$5\pm10\%$	9	100	100
SPR01L-12	$5\pm10\%$	12	84	100
SPR01L-15	$5\pm10\%$	15	67	100
SPR01M-05	12±10%	5	200	100
SPR01M-09	$12\pm10\%$	9	100	100
SPR01M-12	12±10%	12	84	100
SPR01M-15	12±10%	15	67	100
SPR01N-05	$24\pm10\%$	5	200	100
SPR01N-09	$24\pm10\%$	9	100	100
SPR01N-12	$24\pm10\%$	12	84	100
SPR01N-15	$24\pm10\%$	15	67	100
SPR010-05	$48\pm10\%$	5	200	100
SPR010-09	$48\pm10\%$	9	100	100
SPR010-12	$48\pm10\%$	12	84	100
SPR010-15	$48\pm10\%$	15	67	100

Mechanism	Pin Configuration	
FRONT VIEW 381 (0.15)	SMU01 Pin No. Output 1Vin 2 +-Vin 3Vout 4 +-Vout	
SIDE VIEW BOTTOM VIEW 1.381 (0.15) 0.5 (0.02) Unit: mm(inch)	SMA01 Pin No. Output 1	

Voltage set point accuracy $\dots \pm 2\%$ (max.)

Line regulation±1.2% (max.) for 1% input variation

Load regulation±8% (max.)@20~100% load

Input reflected ripple 100mVp-p Efficiency80% (typical) Short circuit protectionMomentary Switching frequency100kHz (min.) I/O isolation voltage 1500VDC (min.)

I/O isolation resistance 100M Ω (min.)@ 500VDC

Isolation capacitance80pF (max.)

Working temperature-40~+85°C (no derating) Storage temperature-55°C to +125°C

EMC Compliance to EN55022 class B,

EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SMU01L-05	5±10%	5	200	100
SMU01L-09	$5\pm10\%$	9	110	100
SMU01L-12	$5\pm10\%$	12	84	100
SMU01L-15	$5\pm10\%$	15	67	100
SMU01M-05	12±10%	5	200	100
SMU01M-09	12±10%	9	110	100
SMU01M-12	12±10%	12	84	100
SMU01M-15	12±10%	15	67	100
SMU01N-05	$24 \pm 10\%$	5	200	100
SMU01N-09	$24 \pm 10\%$	9	110	100
SMU01N-12	$24 \pm 10\%$	12	84	100
SMU01N-15	$24\pm10\%$	15	67	100

Model No.	Input	Output	Current	R&N
woder No.	(VDC)	(VDC)	(mA)	(mVp-p)
SMA01L-05	$5\pm10\%$	5	200	100
SMA01L-09	$5\pm10\%$	9	110	100
SMA01L-12	$5\pm10\%$	12	84	100
SMA01L-15	$5\pm10\%$	15	67	100
SMA01M-05	12±10%	5	200	100
SMA01M-09	12±10%	9	110	100
SMA01M-12	12±10%	12	84	100
SMA01M-15	12±10%	15	67	100
SMA01N-05	$24\pm10\%$	5	200	100
SMA01N-09	$24 \pm 10\%$	9	110	100
SMA01N-12	$24 \pm 10\%$	12	84	100
SMA01N-15	$24 \pm 10\%$	15	67	100

2~5W Module Type



2~3W DC-DC Unregulated Single Output

FC(E 0.77"x 0.28"x 0.4"

- 3000VDC I/O isolation
- Internal SMD technology
- · Built-in EMI filter
- · Protection: Short circuit
- Cooling by free air convection
- · Non-conductive plastic case
- · Single in line package
- · 100% full load burn-in test
- Low cost, high reliability
- · 2 years warranty

Mechanism	Pin Configuration
19.6 (0.77) Unit: mm(inch)	
FRONT VIEW	Pin No. Output
3.81 (0.15)	1 +Vin
11.0.5(0.02)	2 -Vin
5.08 (0.20)	5 -Vout
	7 +Vout
7.1 (0.28) for SPU02 7.5 (0.30) for SPU03 1, 2 5, 7 BOTTOM VIEW 1.2(0.05)	

Voltage set point accuracy ... ±2% (max.)

Line regulation±1.2% (max.) for 1% input variation

Load regulation±8% (max.)@20~100% load

Short circuit protection Momentary

Switching frequency 100kHz (min.) for SPU02; 60kHz (min.) for SPU03

I/O isolation voltage 3000VDC (min.) I/O isolation resistance $100M\Omega$ (min.) Isolation capacitance80pF (max.)

Working temperature-40~+71°C (refer to output derating curve) for SPU02

-40~+90° C (refer to output derating curve) for SPU03

Storage temperature -40°C to +105°C Temp. Coefficient ±0.03% / °C (max.) Case materialnon-conductive plastic

EMC Compliance to EN55022 class B,

EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPU02L-05	$5\pm10\%$	5	400	100
SPU02L-12	$5\pm10\%$	12	167	100
SPU02L-15	$5\pm10\%$	15	133	100
SPU02M-05	12±10%	5	400	100
SPU02M-12	12±10%	12	167	100
SPU02M-15	12±10%	15	133	100
SPU02N-05	$24\pm10\%$	5	400	100
SPU02N-12	$24\pm10\%$	12	167	100
SPU02N-15	24±10%	15	133	100

31 00211-13	2411070	13	100	100
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPU03L-05	$5\pm10\%$	5	600	50
SPU03L-12	$5\pm10\%$	12	250	50
SPU03L-15	$5\pm10\%$	15	200	50
SPU03M-05	12±10%	5	600	50
SPU03M-12	12±10%	12	250	50
SPU03M-15	12±10%	15	200	50
SPU03N-05	$24\pm10\%$	5	600	50
SPU03N-12	$24\pm10\%$	12	250	50
SPU03N-15	24±10%	15	200	50

2~5W DC-DC Regulated Single Output

FC(E







- 2:1 wide input range
- 4:1 wide input range (option)for 2W
- 1000VDC I/O isolation for 2W/3W 1500VDC I/O isolation for 5W
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- 100% full load burn-in test
- Modified models available: output 3.3V / 9V
- 2 years warranty

Mechanism	F	Pin Cor	ıfiguratior	n
21.8(0.86) Unit: mm(inch)		Pin No.	Output	
(0.5 (0.02)) FRONT VIEW		1	-Vin	
0.5 +0.05(0.02)		2	+Vin	
2.54(0.1) (0.2) 3.81±0.5(0.15)		3	R.C.	
17,78(0,7)		5	N.C.	
		6	+Vout	
BOTTOM VIEW		7	-Vout	
3.2(0.13) BOTTOM VIEW		8	N.C.	
2.01(0.08)				

Pin No.	Output
1	-Vin
2	+Vin
3	R.C.
5	N.C.
6	+Vout
7	-Vout
8	N.C.

Voltage set point accuracy ±2% (max.)

EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPA02E-05	4.5~9	5	400	60
SPA02E-12	4.5~9	12	150	60
SPA02E-15	4.5~9	15	120	60
SPA02A-05	9~18	5	400	60
SPA02A-12	9~18	12	167	60
SPA02A-15	9~18	15	133	60
SPA02B-05	18~36	5	400	60
SPA02B-12	18~36	12	167	60
SPA02B-15	18~36	15	133	60
SPA02C-05	36~72	5	400	60
SPA02C-12	36~72	12	167	60
SPA02C-15	36~72	15	133	60

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPB03E-05	4.5~9	5	600	50
SPB03E-12	4.5~9	12	250	60
SPB03E-15	4.5~9	15	200	60
SPB03A-05	9~18	5	600	50
SPB03A-12	9~18	12	250	60
SPB03A-15	9~18	15	200	60
SPB03B-05	18~36	5	600	50
SPB03B-12	18~36	12	250	60
SPB03B-15	18~36	15	200	60
SPB03C-05	36~72	5	600	50
SPB03C-12	36~72	12	250	60
SPB03C-15	36~72	15	200	60

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPB05A-05	9~18	` 5 <i>´</i>	100Ó	` 80 ' ′
SPB05A-12	9~18	12	417	90
SPB05A-15	9~18	15	333	90
SPB05B-05	18~36	5	1000	80
SPB05B-12	18~36	12	417	90
SPB05B-15	18~36	15	333	90
SPB05C-05	36~72	5	1000	80
SPB05C-12	36~72	12	417	90
SPR05C-15	36~72	15	333	90

3~6W Module Type



3W DC-DC Regulated Single and Dual Output

F©(E



- 2:1 wide input range
- 4:1 wide input range (option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- · Built-in EMI filter
- · Protection: Short circuit / Overload
- · Cooling by free air convection
- · Five-sided shield metal case
- · 100% full load burn-in test
- Low cost, high reliability
- Low Cost, mgn renabilit
- · 2 years warranty

5~6W DC-DC Regulated Single and Dual Output

FC(E



- 2:1 wide input range
- 4:1 wide input range(option)
- · 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- · Built-in EMI filter
- · Protection: Short circuit / Overload
- Cooling by free air convection
- · Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- Low cost, mgn renabii
- · 2 years warranty

	Mech	aı	nism		Pin Co	nfigur	ation
			Unit: mm(inch))			
20.3(0.80)	4.6 (0.18))]	0.6+0.1/-0(0.024) 3.8 (0.15)		Pin No.	Out	out
-		_ +			PIII NO.	Single	Dual
023 20		_			2&3	-Vin	-Vin
022 30		_			9	NC	COM
DOTTON MEM	22)	(0.70)	2.54(0.1)		11	NC	-Vout
BOTTOM VIEW	31.8 (1.25)	17.8 (5.08(0.2)		14	+Vout	+Vout
016 90	31.8				16	-Vout	COM
1					22&23	+Vin	+Vin
014 110							
15.2 (0.60)			12.2 (0.48)	_			

Voltage set point accuracy ±2% (max.)

Line regulation±0.5% (max.)

Load regulation±0.5% (max.)@10~100% load

Efficiency82% (typical)

Short circuit protection Continuous, auto-recovery Overload protection 160%-250%, auto-recovery

I/O isolation voltage1000VDC (min.)

I/O isolation resistance $100M\Omega$ (min.)@ 500VDC

Isolation capacitance80pF (max.)

Working temperature-40~+71°C (refer to output derating curve)

Case material Five-sided shield metal case

EMC Compliance to EN55022 class B,
EN61000-4-2,3,4,5,6,8, FCC part15 class B

* Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW03A-05	9~18	5	600	50
SCW03A-12	9~18	12	250	60
SCW03A-15	9~18	15	200	60
SCW03B-05	18~36	5	600	50
SCW03B-12	18~36	12	250	60
SCW03B-15	18~36	15	200	60
SCW03C-05	36~72	5	600	50
SCW03C-12	36~72	12	250	60
SCW03C-15	36~72	15	200	60

* Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW03A-05	9~18	±5	±300	50
DCW03A-12	9~18	±12	±125	60
DCW03A-15	9~18	±15	±100	60
DCW03B-05	18~36	±5	±300	50
DCW03B-12	18~36	±12	±125	60
DCW03B-15	18~36	±15	±100	60
DCW03C-05	36~72	±5	±300	50
DCW03C-12	36~72	±12	±125	60
DCW03C-15	36~72	±15	±100	60

Mechanism Pin Configuration Unit: mm(inch) 4.6 (0.18)— 0.6+0.1/-0(0.024) 3.8 (0.15) 20.3(0.80) Output Pin No. Single Dual 2&3 -Vin -Vin NC COM 11 NC -Vout 2.54(0.1) 31.8 (1.25) BOTTOM 14 +Vout +Vout 16 -Vout COM 016 22&23 +Vin +Vin 12.2 (0.48) 15.2 (0.60)

Load regulation±0.5% (max.)@20~100% load

Efficiency85% (typical)

Short circuit protectionContinuous, auto-recovery Overload protection150%-250%, auto-recovery

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance100MΩ (min.)@ 500VDC

Isolation capacitance80pF (max.)

Working temperature-40~+71°C (refer to output derating curve)

Case material Five-sided shield metal case EMC Compliance to EN55022 class B,

EN61000-4-2,3,4,5,6,8, FCC part15 class B

* Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW05A-05	9~18	5	1000	50
SCW05A-09	9~18	9	556	60
SCW05A-12	9~18	12	470	60
SCW05A-15	9~18	15	400	60
SCW05B-05	18~36	5	1000	50
SCW05B-09	18~36	9	556	60
SCW05B-12	18~36	12	470	60
SCW05B-15	18~36	15	400	60
SCW05C-05	36~72	5	1000	50
SCW05C-09	36~72	9	556	60
SCW05C-12	36~72	12	470	60
SCW05C-15	36~72	15	400	60

Daar Garpar				
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW05A-05	9~18	±5	± 500	50
DCW05A-12	9~18	±12	±230	60
DCW05A-15	9~18	±15	±190	60
DCW05B-05	18~36	±5	±500	50
DCW05B-12	18~36	±12	±230	60
DCW05B-15	18~36	±15	±190	60
DCW05C-05	36~72	±5	±500	50
DCW05C-12	36~72	±12	±230	60
DCW05C-15	36~72	±15	±190	60

DC/DC Converter 5~8W Module Type



5W DC-DC Regulated Single and Dual Output

FC(E

10.2 | 5.1 | 10.1 25.4 (1.00)



- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- · Built-in FMI filter
- · Protection: Short circuit / Overload

Pin Configuration

Output

-Vout -Vout

Dual

+Vin

-Vin

+Vout

COM

Single

+Vin

-Vin

+Vout

No Pin

· Cooling by free air convection

Pin No.

- Six-sided shield metal case
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

Unit: mm(inch)

(0.44)

8W DC-DC Regulated Single and Dual Output

FC(E



- 2:1 wide input range
- 1000VDC I/O isolation
- · Built-in EMI filter
- · Protection: Short circuit / Overload
- · Cooling by free air convection
- · Five-sided shield metal case
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

	Mechanism	Pin Configuration
20.3(0.80)	Unit: mm(inch) 4.6 (0.18) 0.6+0.1/-0(0.024) 3.8 (0.15)	D: N Output
		Pin No. Single Dual 2&3 -Vin -Vin
o23 2 o o 22 3 o		9 NC COM
	(QZ) (QZ) (QZ) (QZ) (QZ) (QZ) (QZ) (QZ)	11 NC -Vout
BOTTOM VIEW	E	14 +Vout +Vout
	31.8	16 -Vout COM
016 90	" 	22&23 +Vin +Vin
15.2 (0.60)	12.2 (0.48)	

Voltage set point accuracy ... ±2% (max.) Line regulation ±0.2% (max.)

BOTTOM VIEW 5 O

50.8 (2.00)

02

Mechanism

Load regulation ±0.5% (max.)@10~100% load

Efficiency 85% (typical)

Short circuit protection Continuous, auto-recovery Overload protection 160%~250%, auto-recovery

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance 100MΩ (min.)@ 500VDC

Working temperature -25~+71°C (refer to output derating curve)

Storage temperature-25°C to +105°C Temp. Coefficient ±0.03% / °C (max.)

Case material Six-sided shield metal case EMC Compliance to EN55022 class B,

EN61000-4-2,3,4,5,6,8, FCC part15 class B

* Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SLW05A-05	9~18	5	1000	50
SLW05A-09	9~18	9	556	60
SLW05A-12	9~18	12	417	60
SLW05A-15	9~18	15	333	60
SLW05B-05	18~36	5	1000	50
SLW05B-09	18~36	9	556	60
SLW05B-12	18~36	12	417	60
SLW05B-15	18~36	15	333	60
SLW05C-05	36~72	5	1000	50
SLW05C-09	36~72	9	556	60
SLW05C-12	36~72	12	417	60
SLW05C-15	36~72	15	333	60

* Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DLW05A-05	9~18	±5	±500	50
DLW05A-12	9~18	±12	±208	60
DLW05A-15	9~18	±15	±167	60
DLW05B-05	18~36	±5	±500	50
DLW05B-12	18~36	±12	±208	60
DLW05B-15	18~36	±15	±167	60
DLW05C-05	36~72	±5	±500	50
DLW05C-12	36~72	±12	±208	60
DLW05C-15	36~72	±15	±167	60

Voltage set point accuracy ±2% (max.) Line regulation $\pm 0.5\%$ (max.)

Load regulation±0.5% (max.)@20~100% load

Efficiency 82% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection 110%~250%, auto-recovery

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance 100MΩ (min.)@ 500VDC

Isolation capacitance 250pF (max.)

Working temperature -40~+71°C (refer to output derating curve)

Storage temperature -40°C to +105°C

Temp. Coefficient ±0.03% / °C (max.)

Case material Five-sided shield metal case EMC Compliance to EN55022 class B,

* Single Output

EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW08A-05	9~18	5	1600	50
SCW08A-12	9~18	12	670	60
SCW08A-15	9~18	15	533	60
SCW08B-05	18~36	5	1600	50
SCW08B-12	18~36	12	670	60
SCW08B-15	18~36	15	533	60
SCW08C-05	36~72	5	1600	50
SCW08C-12	36~72	12	670	60
SCW08C-15	36~72	15	533	60

•				
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW08A-05	9~18	±5	±800	50
DCW08A-12	9~18	±12	±335	60
DCW08A-15	9~18	±15	±267	60
DCW08B-05	18~36	±5	±800	50
DCW08B-12	18~36	±12	±335	60
DCW08B-15	18~36	±15	±267	60
DCW08C-05	36~72	±5	±800	50
DCW08C-12	36~72	±12	±335	60
DCW08C-15	36~72	±15	±267	60

10~12W Module Type



10W DC-DC Regulated Single and Dual Output

FC(E



- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- · Built-in EMI filter
- · Protection: Short circuit / Overload
- · Cooling by free air convection
- · Six-sided shield metal case
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

F©(E



- 2:1 wide input range
- 1500VDC I/O isolation
- · Built-in remote ON/OFF control
- · Built-in EMI filter

12W DC-DC Regulated Single and Dual Output

- Protection: Short circuit / Overload
- · Cooling by free air convection
- · Five-sided shield metal case
- · 100% full load burn-in test
- Low cost, high reliability
- Modified models available: output 2.5V / 3.3V
- · 2 years warranty

Pin No.	Output		
PIII NO.	Single	Dual	
1	+Vin	+Vin	
2	-Vin -Vin		
3	+Vout	+Vout	
4	No Pin	COM	
5	-Vout	-Vout	

Pin Configuration

Voltage set point accuracy ... ±2% (max.)

Line regulation $\pm 0.3\%$ (max.)

Load regulation ±0.5% (max.)@10~100% load

Efficiency85% (typical)

Short circuit protection $\ldots\ldots$ Continuous, auto-recovery

Overload protection 160%~250%, auto-recovery

I/O isolation voltage1000VDC (min.)

I/O isolation resistance100M Ω (min.)@ 500VDC

Working temperature-25~+71°C (refer to output derating curve)

Storage temperature -25° C to $+105^{\circ}$ C Temp. Coefficient $\pm 0.03\%$ / $^{\circ}$ C (max.)

Case materialSix-sided shield metal case

EMC Compliance to EN55022 class B,

EN61000-4-2,3,4,5,6,8, FCC part15 class B

* Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKE10A-05	9~18	5	2000	50
SKE10A-12	9~18	12	840	60
SKE10A-15	9~18	15	666	60
SKE10A-24	9~18	24	420	80
SKE10B-05	18~36	5	2000	50
SKE10B-12	18~36	12	840	60
SKE10B-15	18~36	15	666	60
SKE10B-24	18~36	24	420	80
SKE10C-05	36~72	5	2000	50
SKE10C-12	36~72	12	840	60
SKE10C-15	36~72	15	666	60
SKE10C-24	36~72	24	420	80

* Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKE10A-05	9~18	±5	±1000	50
DKE10A-12	9~18	±12	±420	60
DKE10A-15	9~18	±15	±333	60
DKE10A-24	9~18	±24	±210	80
DKE10B-05	18~36	±5	±1000	50
DKE10B-12	18~36	±12	±420	60
DKE10B-15	18~36	±15	±333	60
DKE10B-24	18~36	±24	±210	80
DKE10C-05	36~72	±5	±1000	50
DKE10C-12	36~72	±12	±420	60
DKE10C-15	36~72	±15	±333	60
DKE10C-24	36~72	±24	±210	80

Mechanism					
20.3(0.80)	4.6 (0.18)—	Unit: mm(inch) 0.6+0.1/-0 (0.024) 3.8 (0.15)			
023 20 022 30 BOTTOM VIEW	8 (1.25)				
016 90 014 110	31.8 (1.25)	5.00(0.2)			
15.2 (0.60)	. <u> </u>	12.2 (0.48)			

Pin No.	Out	Output		
PIII NO.	Single	Dual		
1	R.C	R.C		
2&3	-Vin	-Vin		
9	NC	COM		
11	NC	-Vout		
14	+Vout	+Vout		
16	-Vout	COM		
22&23	+Vin	+Vin		

Pin Configuration

Voltage set point accuracy $\dots \pm 2\%$ (max.)

Line regulation $\pm 0.5\%$ (max.)

Load regulation ±0.5% (max.)@20~100% load

Efficiency85% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection 110%~180%, auto-recovery

I/O isolation voltage1500VDC (min.)

I/O isolation resistance100M Ω (min.)@ 500VDC

Working temperature-40~+71°C (refer to output derating curve)

Storage temperature-40°C to +105°C
Temp. Coefficient±0.03% / °C (max.)

Case material Five-sided shield metal case EMC Compliance to EN55022 class A,

EN61000-4-2,3,4,5,6,8, FCC part15 class A

* Single Output

3				
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW12A-05	9~18	5	2400	50
SCW12A-12	9~18	12	1000	60
SCW12A-15	9~18	15	800	60
SCW12B-05	18~36	5	2400	50
SCW12B-12	18~36	12	1000	60
SCW12B-15	18~36	15	800	60
SCW12C-05	36~72	5	2400	50
SCW12C-12	36~72	12	1000	60
SCW12C-15	36~72	15	800	60

Duai Output					
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)	
DCW12A-05	9~18	±5	±1200	50	
DCW12A-12	9~18	±12	±500	60	
DCW12A-15	9~18	±15	±400	60	
DCW12B-05	18~36	±5	±1200	50	
DCW12B-12	18~36	±12	±500	60	
DCW12B-15	18~36	±15	± 400	60	
DCW12C-05	36~72	±5	±1200	50	
DCW12C-12	36~72	±12	±500	60	
DCW12C-15	36~72	±15	±400	60	

15W Module Type



15W DC-DC Regulated Single Output

F©(E



- 1"x1" compact size
- 2:1 wide input range
- 1500VDC I/O isolation
- · High efficiency up to 88%
- · Built-in remote ON/OFF control
- · Built-in EMI filter
- Trimming output (±10%)
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

Mechanism	Pin Configuration
Unit: mm 12.7 (0.50) 10.16 (0.40) 10.16 (0.40) 0.04:0.005 N N N N N N N N N N N N N	Pin No. Output 1 +Vin 2 -Vin 3 R.C 4 -Vout 5 Trim 6 +Vout

Voltage set point accuracy ... ±2% (max.)

Line regulation $\pm 0.5\%$ (max.)

Load regulation ±0.5% (max.) @10%~100% load

Overload protection 110%~180%, auto-recovery

Over voltage protection Clamp by TVS diode

Efficiency 88% (typical)

I/O isolation voltage1500VDC(min.)

I/O isolation resistance $100M\Omega(min.)$ @500VDC

Working temperature -40~+80°C (refer to output derating curve)

Storage temperature-55°C to 100°C

Case Material Six-sided shield metal case

EMC Compliance to EN55022 class A,

EN61000-4-2,3,4,5,6,8, FCC part15 classA

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SKM15A-05	9~18	5	3.00	50
SKM15A-12	9~18	12	1.25	60
SKM15A-15	9~18	15	1.00	60
SKM15B-05	18~36	5	3.00	50
SKM15B-12	18~36	12	1.25	60
SKM15B-15	18~36	15	1.00	60
SKM15C-05	36~75	5	3.00	50
SKM15C-12	36~75	12	1.25	60
SKM15C-15	36~75	15	1.00	60

o Satisfy our customers is our goal -

- High Quality
- Prompt Delivery
- Low Cost · Best Service

15W DC-DC Regulated Single and Dual Output

FCCE



- 2:1 wide input range
- 4:1 wide input range(option)
- · 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- · Built-in EMI filter
- · Protection: Short circuit / Overload
- · Cooling by free air convection
- · Six-sided shield metal case
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

Mechanism	Pin Configuration
Unit: mm(inch) 15.3 20.3 15.2 11.27 11.27 10.1 40 0.2 40 0.2 BOTTOM VIEW 50 10.23	Pin No. Output Single Dual 1 +Vin +Vin 2 -Vin -Vin 3 +Vout +Vout 4 No Pin COM 5 -Vout -Vout

Voltage set point accuracy ... ±2% (max.)

Line regulation ±0.2% (max.)

Load regulation ±0.5% (max.)@10~100% load

Efficiency 82% (typical)

Short circuit protectionContinuous, auto-recovery Overload protection 110%~250%, auto-recovery

I/O isolation voltage1000VDC (min.)

I/O isolation resistance 100MΩ (min.)@ 500VDC

Working temperature-40~+71°C (refer to output derating curve)

Storage temperature-40°C to +105°C Temp. Coefficient ±0.03% / °C (max.) Case material Six-sided shield metal case EMC Compliance to EN55022 class B,

* Single Output

EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKA15A-033	9~18	3.3	3000	50
SKA15A-05	9~18	5	3000	50
SKA15A-12	9~18	12	1250	60
SKA15A-15	9~18	15	1000	60
SKA15B-033	18~36	3.3	3000	50
SKA15B-05	18~36	5	3000	50
SKA15B-12	18~36	12	1250	60
SKA15B-15	18~36	15	1000	60
SKA15C-033	36~72	3.3	3000	50
SKA15C-05	36~72	5	3000	50
SKA15C-12	36~72	12	1250	60
SKA15C-15	36~72	15	1000	60

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKA15A-05	9~18	±5	±1500	50
DKA15A-12	9~18	±12	±625	60
DKA15A-15	9~18	±15	±500	60
DKA15B-05	18~36	±5	±1500	50
DKA15B-12	18~36	±12	±625	60
DKA15B-15	18~36	±15	±500	60
DKA15C-05	36~72	±5	±1500	50
DKA15C-12	36~72	±12	±625	60
DKA15C-15	36~72	±15	±500	60

DC/DC Converter 15~30W Module Type



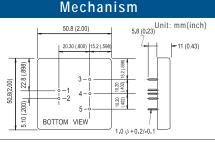
15W DC-DC Regulated Single and Dual Output

FCCE



- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- · Built-in EMI filter
- · Protections: Short circuit / Overload
- · Cooling by free air convection
- · Six-sided shield metal case
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years war

ingir remability	
rranty	



	0.1	
Pin No.	Out	
1 111 140.	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	COM
5	-Vout	-Vout

Pin Configuration

Voltage set point accuracy ... ±2% (max.)

Line regulation ±0.3% (max.)

Load regulation ±0.5% (max.)@10~100% load

Efficiency85% (typical)

Short circuit protection Continuous, auto-recovery Overload protection160%~250%, auto-recovery

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance 100MΩ (min.)@ 500VDC

Working temperature-25~+71°C (refer to output derating curve)

Storage temperature -25°C to +105°C Temp. Coefficient ±0.03% / °C (max.) Case material Six-sided shield metal case

EMCCompliance to EN55022 class B,

EN61000-4-2,3,4,5,6,8, FCC part15 class B

* Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKE15A-05	9~18	5	3000	50
SKE15A-12	9~18	12	1250	60
SKE15A-15	9~18	15	1000	60
SKE15A-24	9~18	24	625	80
SKE15B-05	18~36	5	3000	50
SKE15B-12	18~36	12	1250	60
SKE15B-15	18~36	15	1000	60
SKE15B-24	18~36	24	625	80
SKE15C-05	36~72	5	3000	50
SKE15C-12	36~72	12	1250	60
SKE15C-15	36~72	15	1000	60
SKE15C-24	36~72	24	625	80

* Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKE15A-05	9~18	±5	±1500	50
DKE15A-12	9~18	±12	±625	60
DKE15A-15	9~18	±15	±500	60
DKE15A-24	9~18	±24	±313	80
DKE15B-05	18~36	±5	±1500	50
DKE15B-12	18~36	±12	±625	60
DKE15B-15	18~36	±15	±500	60
DKE15B-24	18~36	±24	±313	80
DKE15C-05	36~72	±5	±1500	50
DKE15C-12	36~72	±12	±625	60
DKE15C-15	36~72	±15	±500	60
DKE15C-24	36~72	±24	±313	80

20~30W DC-DC Regulated Single Output

FCCE



- 2"x 1" compact size
- · 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- · Built-in EMI filter
- Trimming output (±10%)
- · Protections:

Short circuit / Overload / Input and output over voltage

- Cooling by free air convection
- · Six-sided shield metal case
- 100% full load burn-in test
- · Low cost, high reliability
- 2 years warranty

Pin Configuration Mechanism Unit: mm(inch) Output Pin No. SKA20 SKM30 +Vin +Vin 2 -Vin -Vin +Vout R C 3 SKA20 4 Trim +Vout 5 -Vout -Vout R.C. 6 Trim SKM30

Voltage set point accuracy ±2% (max.) Line regulation ±0.2% (max.)

Load regulation ±0.5% (max.)@10~100% load Efficiency 89.5% (typical) for SKA20

90% (typical) for SKM30

EN61000-4-2,3,4,5,6,8, FCC part15 class A

Short circuit protection Continuous, auto-recovery Overload protection110%~180%, auto-recovery

I/O isolation voltage 1500VDC (min.) I/O isolation resistance 100M Ω (min.)@ 500VDC

Working temperature -40~+85°C (refer to output derating curve) for SKA20 -40~+75°C (refer to output derating curve) for SKM30

EMCCompliance to EN55022 class A,

* SKA20 Series

317720 301103				
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKA20A-05	9~18	5	4000	50
SKA20A-12	9~18	12	1666	60
SKA20A-15	9~18	15	1333	60
SKA20B-05	18~36	5	4000	50
SKA20B-12	18~36	12	1666	60
SKA20B-15	18~36	15	1333	60
SKA20C-05	36~75	5	4000	50
SKA20C-12	36~75	12	1666	60
SKA20C-15	36~75	15	1333	60

* SKM30 Series

SKWISO SCITES					
Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)	
SKM30A-05	9~18	5	6	90	
SKM30A-12	9~18	12	2.5	120	
SKM30A-15	9~18	15	2	120	
SKM30B-05	18~36	5	6	90	
SKM30B-12	18~36	12	2.5	120	
SKM30B-15	18~36	15	2	120	
SKM30C-05	36~75	5	6	90	
SKM30C-12	36~75	12	2.5	120	
SKM30C-15	36~75	15	2	120	

DC/DC Converter 25~30W Module Type



30W DC-DC Regulated Single Output

CE



- 2:1 wide input range
- 1000VDC I/O isolation
- · Built-in remote ON/OFF control
- · Built-in EMI filter
- Trimming output (±10%)
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- · Compact size, high efficiency
- 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

Mechanism Pin Configuration Unit: mm Pin No. Output +Vin -Vin DIA 1mm No Pin Control ON/OFF SIDE воттом 45.72 VIEW No Pin VIEW +Vout -Vout Trim 4.8(typ)

Voltage set point accuracy ... ±2% (max.)(±3% for 3.3VDC models)

Line regulation ±1% (max.)

Load regulation ±1% (max.) @10~100% load

Overload protection Over 105% power limiting, auto-recovery

Over voltage protection 115%~150% rated output voltage

Efficiency (typical)80% for 12V input

83% for 24V input

85% for 48V input

I/O isolation voltage1000VDC(min.)

I/O isolation resistance $100M\Omega(min.)$ @500VDC

Working temperature -25~+85°C(refer to output derating curve)

Storage temperature-25°C to +85°C

Case Material Six-sided shield metal case

EMCCompliance to EN55022 class B,

EN61000-4-2,3,4,6,8

Packing 0.1kg; 150pcs / 15.8kg / 0.97CUFT

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SDM30-12S3	9.2~18	3.3	5.0	75
SDM30-12S5	9.2~18	5	5.0	75
SDM30-12S12	9.2~18	12	2.1	100
SDM30-12S15	9.2~18	15	1.7	100
SDM30-24S3	18~36	3.3	5.0	75
SDM30-24S5	18~36	5	5.0	75
SDM30-24S12	18~36	12	2.5	100
SDM30-24S15	18~36	15	2.0	100
SDM30-48S3	36~72	3.3	5.0	75
SDM30-48S5	36~72	5	5.0	75
SDM30-48S12	36~72	12	2.5	100
SDM30-48S15	36~72	15	2.0	100

25~30W DC-DC Regulated Dual and Triple Output

FC(E



- 2:1 wide input range
- 4:1 wide input range(option)
- · 1000VDC I/O isolation
- · Built-in remote ON/OFF control
- · Built-in EMI filter
- · Trimming output (±10%) for dual output
- · Protections: Short circuit / Overload
- · Cooling by free air convection
- · Six-sided shield metal case
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

Mechanism	Pin
Unit: mm(inch) 30.48 (1.20) 1.0 φ + 0.2/-0.1 BOTTOM VIEW 12.7 (0.50) 4 3 2 1 4 3 2 1 4 4 0.40 22.9 (0.90) 15,24 (0.60) 50.8 (2.00) 25.8 (0.23)	Pin N 1 2 3 4 5 6 7 8

Pin No.	Ou	tput
PIII NO.	Dual	Triple
1	R.C.	R.C.
2	No Pin	No Pin
3	-Vin	-Vin
4	+Vin	+Vin
5	+Vout	+Vout
6	COM	+5V
7	-Vout	COM
8	Trim	-Vout

Configuration

Voltage set point accuracy $\dots \pm 2\%$ (max.)

Line regulation $\pm 0.5\%$ (max.) for dual output;

±1% (max.) for triple output

Load regulation ±0.5% (10~100% load)(Dual)

±5% (20~100% load)(Triple)

Efficiency 83% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection110%~250%, auto-recovery

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance100MΩ (min.)@ 500VDC

Working temperature-40~+85°C (refer to output derating curve) Storage temperature-40°C to +105°C

Temp. Coefficient $\pm 0.03\%$ / °C (max.)

Case material Six-sided shield metal case

EMCCompliance to EN55022 class B, EN61000-4-2,3,4,5,6,8, FCC part15 class B

· Duai Output				
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKA30A-05	9~18	±5	±2500	100
DKA30A-12	9~18	±12	±1250	100
DKA30A-15	9~18	15	±1000	100
DKA30B-05	18~36	±5	±2500	100
DKA30B-12	18~36	±12	±1250	100
DKA30B-15	18~36	±15	±1000	100
DKA30C-05	36~72	±5	±2500	100
DKA30C-12	36~72	±12	±1250	100
DKA30C-15	36~72	±15	±1000	100

* Triple Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
TKA30A-B	9~18	$+5/\pm12$	$3500 / \pm 310$	100
TKA30A-C	9~18	+5 / ±15	3500 / ±250	100
TKA30B-B	18~36	+5 / ±12	3500 / ±310	100
TKA30B-C	18~36	+5 / ±15	3500 / ±250	100
TKA30C-B	36~72	+5 / ±12	3500 / ±310	100
TKA30C-C	36~72	+5 / ±15	3500 / ±250	100

DC/DC Converter 40~60W Module Type



50W DC-DC Regulated Single Output

FC(E



- 2"x1" compact size
- · 2:1 wide input range
- 1500VDC I/O isolation
- · High efficiency up to 92%
- · Built-in remote ON/OFF control
- · Built-in EMI filter
- Trimming output (±10%)
- · Protections: Short circuit / Overload / Input and output over voltage
- · Cooling by free air convection
- · Six-sided shield metal case
- · 100% full load burn-in test
- · Low cost, high reliability

· 2 years warranty

Pin Configuration Mechanism Unit: mm(inch) 50.8 (2.00) Pin No. Output +Vin SIDE 13.7 (0.54) 2 -Vin VIFW 3 R C 5.8 (0.23) 45.72 (1.8) +Vout -Vout 6 Trim воттом

Voltage set point accuracy ±2% (max.)

Line regulation ±0.2% (max.)

Load regulation ±0.5% (max.) @ 10~100% load

Efficiency 92% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection110%~180%, auto-recovery

I/O isolation voltage 1500VDC (min.)

I/O isolation resistance $100M\Omega$ (min.)@ 500VDC

Working temperature-40~+75°C (refer to output derating curve)

Storage temperature -55°C to +125°C

Temp. Coefficient ±0.03% / °C (max.)

Case material Six-sided shield metal case

EMCCompliance to EN55022 class A,

EN61000-4-2,3,4,5,6,8, FCC part15 class A

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SKM50B-05	18~36	5	10	60
SKM50B-12	18~36	12	4.17	80
SKM50B-15	18~36	15	3.33	100
SKM50C-05	36~75	5	10	60
SKM50C-12	36~75	12	4.17	80
SKM50C-15	36~75	15	3.33	100

Customer Satisfaction -

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.

40~60W DC-DC Regulated Single Output

FC(E



- 2"x2" compact size
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 93%
- Built-in remote ON/OFF control
- Built-in remote sense
- Built-in EMI filter
- Trimming output (±10%)
- Protections:

Short circuit / Overload / Input and output over voltage

- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- Output 3.3V/9V models available for SKA40

Output 3.3V available for SKA60

2 years warranty

Mechanism Unit: mm(inch) 11.00 1.0 DIA (0.04±0.005) 15,70(1.80) SIDE BOTTOM VIEW VIFW

SKA60

	_
Pin No.	Output
1	R.C.
2	-Vin
3	+Vin
4	-R.S
5	+R.S
6	+Vout
7	-Vout
8	Trim

Pin Configuration

Voltage set point accuracy ... ±2% (max.)

Line regulation ±0.5% (max.)

Load regulation ±0.5% (max.) @10~100% load

Overload protection 110%~180%, auto-recovery

Over voltage protection Clamp by TVS diode

I/O isolation voltage1500VDC(min.)

I/O isolation resistance $100M\Omega(min.)$ @500VDC

Working temperature -40~+80°C(refer to output derating curve) for SKA40

-40~+70°C(refer to output derating curve) for SKA60

Storage temperature-55°C to +105°C

Case Material Six-sided shield metal case EMCCompliance to EN55022 class A,

EN61000-4-2,3,4,5,6,8, FCC part15 classA

Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
9~18	5	7.00	60
9~18	12	3.33	80
9~18	15	2.67	100
18~36	5	7.00	60
18~36	12	3.33	80
18~36	15	2.67	100
36~75	5	7.00	60
36~75	12	3.33	80
36~75	15	2.67	100
	(VDC) 9~18 9~18 9~18 18~36 18~36 36~75 36~75	(vbc) (vbc) 9~18 5 9~18 12 9~18 15 18~36 5 18~36 12 18~36 15 36~75 5 36~75 12	(VDC) (VDC) (A) 9~18 5 7.00 9~18 12 3.33 9~18 15 2.67 18~36 5 7.00 18~36 12 3.33 18~36 15 2.67 36~75 5 7.00 36~75 12 3.33

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SKA60A-05	9~18	5	12	60
SKA60A-12	9~18	12	5	80
SKA60A-15	9~18	15	4	100
SKA60B-05	18~36	5	12	60
SKA60B-12	18~36	12	5	80
SKA60B-15	18~36	15	4	100
SKA60C-05	36~75	5	12	60
SKA60C-12	36~75	12	5	80
SKA60C-15	36~75	15	4	100

75~100W Module Type



75W DC-DC Half-Brick Regulated Single Output



- Half-brick size (2.28"x 2.4"x 0.5") with industry standard pin out
 2:1 wide input range
 1500VDC I/O isolation

- High efficiency up to 89% Built-in remote ON/OFF control
- Built-in remote sense Trimming output (±10%)
- Protections:
- Short circuit / Over current /
 Over voltage / Over temperature
 Five-sided shield metal case
- Optional heatsink available
- 3 years warranty

100W DC-DC Half-Brick Regulated Single Output





- Half-brick size (2.28"x 2.4"x 0.5") with industry standard pin out
- 2:1 wide input range
- 1500VDC I/O isolation
- · High efficiency up to 89%
- Built-in remote ON/OFF control
- Built-in remote sense
- Trimming output (±10%)
- Protections:
- Short circuit / Over current / Over voltage / Over temperature
- Five-sided shield metal case
- Output 2.5V / 3.3V / 15V available
- Optional heatsink available
- 3 years warranty

Mechanism Unit: mm(inch) BOTTOM VIEW 5 ф Φ 1.90 [48.3] 2.28 [57.9]

Pin No.	Output
1	+Vin
2	R.C.
3	Case
4	-Vin
5	-Vout
6	-R.S.
7	Trim
8	+R.S.
9	+Vout

Pin Configuration

Voltage set point accuracy ... ±1% (max.) Line regulation ±0.2% (max.) Load regulation ±0.2% (max.)

Over current protection 110%~150%, auto-recovery

Over voltage protection 115%~140% rated output voltage, clamp by TVS diode

Over temperature protection $100^{\circ}\text{C} \pm 5^{\circ}\text{C}$ of case temperature

Efficiency 89% (typical) I/O isolation voltage 1500VDC(min.) I/O isolation resistance 100M $\Omega(min.)$ @500VDC

Working temperature -40~+100°C of case temp. (refer to output derating curve)

Storage temperature -55~+105°C Safety standards UL60950-1 approved Case Material Five-sided shield metal case

EMC Compliance to EN55022 class A with external

components(refer to "EMC suggestion circuit"),

EN61000-4-2,3,4,5,6,8

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
MHB75-12S05	9~18	5	15	75
MHB75-12S12	9~18	12	6.25	100
MHB75-12S24	9~18	24	3.13	240
MHB75-24S05	18~36	5	15	75
MHB75-24S12	18~36	12	6.25	100
MHB75-24S24	18~36	24	3.13	240
MHB75-48S05	36~75	5	15	75
MHB75-48S12	36~75	12	6.25	100
MHR75-48S24	36~75	24	3 13	240

Mechanism	Pin Configuration		
Unit: mm(Inch) 0.19 mm, IA-9 10 130 Mounting Inserts M3'0.5 BOTTOM VIEW 0.40 Mounting Inserts M3'0.5 BOTTOM VIEW 0.50 12.7 1.90 48.3 1.90 48.3 2.28 57.9	Pin No. Output 1 +Vin 2 R.C. 3 Case 4 -Vin 5 -Vout 6 -R.S. 7 Trim 8 +R.S. 9 +Vout		

Voltage set point accuracy ... ±1% (max.) Line regulation ±0.2% (max.) Load regulation ±0.2% (max.)

Over current protection 110%~140%, auto-recovery

Over voltage protection 115%~140% rated output voltage, clamp by TVS diode

Over temperature protection 100°C±5°C of case temperature

Efficiency 89% (typical) I/O isolation voltage1500VDC(min.)

I/O isolation resistance $100M\Omega(min.)$ @500VDC

Working temperature -40~+100° C of case temp.(refer to output derating curve)

Storage temperature-55~+105°C Safety standards UL60950-1 approved

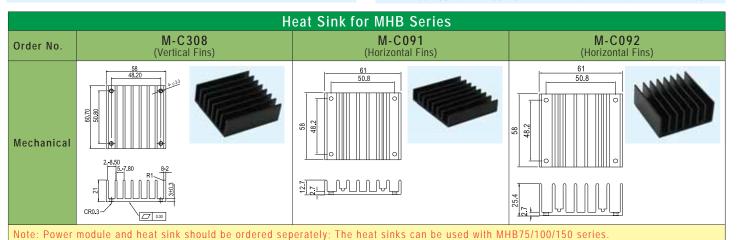
Case Material Five-sided shield metal case

EMC Compliance to EN55022 class A with external

components(refer to "EMC suggestion circuit"),

EN61000-4-2.3.4.5.6.8

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
MHB100-24S05	18~36	5	20	100
MHB100-24S12	18~36	12	8.3	150
MHB100-24S24	18~36	24	4.17	240
MHB100-48S05	36~75	5	20	100
MHB100-48S12	36~75	12	8.3	150
MHB100-48S24	36~75	24	4.17	240



DC/DC Converter 150W Module Type / 5W On Board Type



150W DC-DC Half-Brick Regulated Single Output

G W US **C E**



- Half-brick size (2.28"x 2.4"x 0.5") with industry standard pin out
- · 2:1 wide input range
- 1500VDC I/O isolation
- · High efficiency up to 89%
- Built-in remote ON/OFF control
- · Built-in remote sense
- Trimming output (±10%)
- · Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- · Five-sided shield metal case
- Output 2.5V / 3.3V / 15V available

ion

- · Optional heatsink available
- · 3 years warranty

Mechanism	Pin Configurat
Unit: mm(inch Mounting Inserts M3'0.5 BOTTOM VIEW Mounting Inserts M3'0.5 BOTTOM VIEW 0.50112.71	Pin No. Output 1 +Vin 2 R.C. 3 Case 4 -Vin 5 -Vout 6 -R.S. 7 Trim 8 +R.S. 9 +Vout

Voltage set point accuracy±1% (max.)
Line regulation±0.2% (max.)
Load regulation ±0.2% (max.)
Over current protection 110%~150%, auto-recovery
Over voltage protection 115%-140% rated output voltage, clamp by TVS diode
Over temperature protection $100^{\circ}C \pm 5^{\circ}C$ of case temperature
Efficiency
I/O isolation voltage1500VDC(min.)
I/O isolation resistance 100M $\Omega(min.)$ @500VDC
Working temperature40~+100° C of case temp.(refer to output derating curve)
Storage temperature55~+105°C
Safety standardsUL60950-1 approved
Case Material Five-sided shield metal case
EMCCompliance to EN55022 class A with external
components(refer to "EMC suggestion circuit"),

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
MHB150-48S05	36~75	5	30	100
MHB150-48S12	36~75	12	12.5	150
MHB150-48S24	36~75	24	6.25	240

EN61000-4-2,3,4,5,6,8

Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.

5W DC-DC Regulated Single Output

CB(E



- 4:1 wide input range
- · 1000VDC I/O isolation
- · Built-in EMI filter
- · Protections: Short circuit / Overload / Over voltage
- · Built-in remote ON/OFF control
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

Mechanism	Pin Configuration	
Unit: mm(inch) 40.6 (1.6) 30.48 (1.2) 10.16 (0.4) 40.6 (1.6) (1.0) 95 2 40.6 (1.6) 95 2 40.6 (1.6) 95 2 40.6 (1.6) 95 2 40.6 (1.6) 95 2 40.6 (1.6) 95 2 40.6 (1.6) 95 2 40.6 (1.6) 95 2 40.6 (1.6) 95 2 40.6 (1.6) 95 2 40.6	Pin No. Output 1 +Input 2 -Input(GND) 3 +Vout 4 -Vout 5 Control	

Voltage set point accuracy ... ±2.0% (max.) Line regulation ±1.0% (max.) Load regulation ±1~±2% (max.)@10~100% load Efficiency85% (typical) Short circuit protection Continuous, auto-recovery Overload protection Over 105% power limiting, auto-recovery I/O isolation voltage1000VDC I/O isolation resistance100MΩ (min.)@ 500VDC Working temperature-25~+70°C (refer to output derating curve) Storage temperature-40~+85°C Temp. Coefficient±0.03% / °C Safety standardsIEC60950-1 CB approved by TUV EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8 Packing0.007kg; 700pcs / 5.9kg / 0.97CUFT

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD05-12S3	9.2~36	3.3	1200	75
NSD05-12S5	9.2~36	5	1000	75
NSD05-12S12	9.2~36	12	420	75
NSD05-12S15	9.2~36	15	330	75
NSD05-48S3	18~72	3.3	1200	75
NSD05-48S5	18~72	5	1000	75
NSD05-48S12	18~72	12	420	75
NSD05-48S15	18~72	15	330	75



We prvide specification, drawing, test report and more information, please visit our website -

http://www.meanwell.com



We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs

DC/DC Converter 10~15W On Board Type



10W DC-DC Regulated Single and Dual Output

c \$12° ∪s **C** €



- 4:1 wide input range
- 1000VDC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- · Built-in EMI filter
- · Built-in remote ON/OFF control
- Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability

· 2 years warranty

15W DC-DC Regulated Single and Dual Output

c91[®] ∪s **(** €



- 4:1 wide input range
- · 1500VDC I/O isolation
- · Protections: Short circuit / Overload / Over voltage
- · Built-in EMI filter
- Output voltage trimming function
- Built-in remote ON/OFF control
- · Cooling by free air convection
- 100% full load burn-in test
- · Low cost, high reliability

•	2	years	warrant
---	---	-------	---------

Mechanism Pin Configuration Unit: mm(inch) apvvvvvvva Output Pin No Single Dual +Input +Input A -Input -Input 2 (GND) (GND) +Out +Out NC Common -Out -Out Control Control 50.8 [2] Voltage set point accuracy ±2% (max.)

Line regulation ±1% @10~100% load

Load regulation ±1~±3% @10~100% load

Efficiency 80% (typical)

Short circuit protection Continuous, auto-recovery

Shutdown idle current 20mA

I/O isolation voltage 1000VDC

I/O isolation resistance 100M Ω (min.) @500VDC

Working temperature -25~+70°C Storage temperature-40~+85°C Temp. coefficient ±0.03% / °C

Safety standards UL60950-1 approved

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing 0.02kg; 300pcs / 7.0kg / 0.97CUFT

* Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD10-12S3	9.8~36	3.3	2500	75
NSD10-12S5	9.8~36	5	2000	75
NSD10-12S9	9.8~36	9	1100	75
NSD10-12S12	9.8~36	12	830	75
NSD10-12S15	9.8~36	15	670	75
NSD10-48S3	22~72	3.3	2500	75
NSD10-48S5	22~72	5	2000	75
NSD10-48S9	22~72	9	1100	75
NSD10-48S12	22~72	12	830	75
NSD10-48S15	22~72	15	670	75

* Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD10-12D5	9.8~36	±5	±50~1000	75
NSD10-12D12	9.8~36	±12	±20~420	75
NSD10-12D15	9.8~36	±15	±16~330	75
NSD10-48D5	22~72	±5	±50~1000	75
NSD10-48D12	22~72	±12	±20~420	75
NSD10-48D15	22~72	±15	±16~330	75

Mechanism Pin Configuration Unit: mm(inch) www. Output Pin No Single Dual +Vin +Vin No Pin No Pin Control Control +Vout +Vout Common -Vout Vout Trim Trim

Voltage set point accuracy	. ±2% (max.)
Line regulation	±1% @10~100% load
Load regulation	±1~±3% @10~100% load
Efficiency	. 85% (typical)
Short circuit protection	. Continuous, auto-recovery
Over voltage protection	Clamp@115~150%
Shutdown idle current	20mA
I/O isolation voltage	. 1500VDC
I/O isolation resistance	100MΩ(min.) @500VDC
Working temperature	25~+70°C
Storage temperature	40~+85°C
Temp. coefficient	±0.03% / °C
Safety standards	UL60950-1 approved
EMC standards	. EN55022 class B, EN61000-4-2,3,4,6,8
Packing	0.03kg ; 180pcs / 6.4kg / 0.97CUFT

* Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD15-12S3	9.4~36	3.3	3750	100
NSD15-12S5	9.4~36	5	3000	75
NSD15-12S12	9.4~36	12	1250	75
NSD15-12S15	9.4~36	15	1000	75
NSD15-48S3	18~72	3.3	3750	100
NSD15-48S5	18~72	5	3000	75
NSD15-48S12	18~72	12	1250	75
NSD15-48S15	18~72	15	1000	75

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD15-12D5	9.4~36	±5	±70~1500	100
NSD15-12D12	9.4~36	±12	±30~620	100
NSD15-12D15	9.4~36	±15	±20~500	100
NSD15-48D5	18~72	±5	±70~1500	100
NSD15-48D12	18~72	±12	±30~620	100
NSD15-48D15	18~72	+15	+20~500	100

DC/DC Converter 12.5~60W On Board Type / 5~15W PCB Type



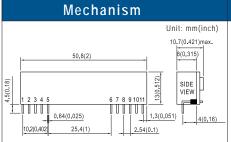
12.5~60W Single Output Non-isolated DC-DC Converter

- · Non-isolated, fix-frequency at 250kHz
- 3:1 wide input range for 5~15V output
- ±2% output voltage accuracy
- High efficiency up to 96%
- · Built-in remote ON/OFF control
- Compact size

- · Cooling by free air convection
- · Economical open frame design
- · Protections: Short circuit / Overload / Over voltage
- · 2 years warranty



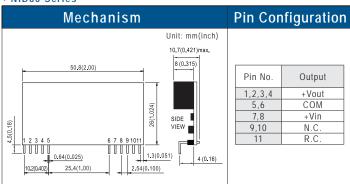
* NID30 Series



Pin No.	Output
1,2,3,4	+Vout
5,6	COM
7,8	+Vin
9,10	N.C.
11	R.C.

Pin Configuration

* NID60 Series



Voltage set point accuracy ±2% (max.)
Line regulation ±0.5%
Load regulation ±0.5% @ 10~100% load
Efficiency 96% (typical)
Short circuit protection Continuous, auto-recovery
Overload protection 120%~300%, auto-recovery
Over voltage protection
Working temperature25 $^{+65}^{\circ}$ C (refer to derating curve)
Storage temperature25~+105°C
Temp. coefficient ±0.03% / °C

* NID30 Series

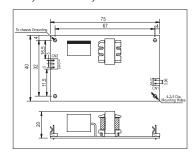
	Model No.	Input	Output	R&N	Effi
	NID30S24-05	20~53V	5V, 0~2.50A	100mV	91%
	NID30S24-12	20~53V	12V, 0~2.50A	120mV	95%
	NID30S24-15	20~53V	15V, 0~2.00A	150mV	96%
	NID30S48-24	30~53V	24V, 0~1.25A	200mV	93%
	· NID (0 Combo				
1	NID60 Series				
	Model No.	Input	Output	R&N	Effi
		Input 20~53V	Output 5V, 0~4.0A	R&N 100mV	Effi 90%
	Model No.	•	•		
	Model No. NID60S24-05	20~53V	5V, 0~4.0A	100mV	90%

5W Single Output DC-DC Converter

- · 2:1 wide input range
- · 2000VAC I/O isolation
- · Protections: Short circuit / Overload / Over voltage / Over temp.
- · Built-in EMI filter, low ripple noise
- · 100% full load burn-in test
- Low cost, high reliability
- · 2 years warranty







Line and load regulation $\dots \pm 1.0\%$ (max.)

Overload protection >105% fold back current limiting, auto-recovery

Over voltage protection $115\% \sim 135\%$ rated output voltage

Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance 100M Ω (min.) @500VDC

Working temperature -10~+60°C (refer to output derating curve)

Safety standards Meet LVD

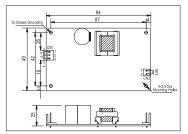
EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Model No.	Input	Output	R&N	Effi.
PSD-05-5	36~72V	5V, 0~1.0A	50mV	75%
PSD-05-12	36~72V	12V, 0~0.45A	100mV	78%
PSD-05-24	36~72V	24V, 0~0.22A	150mV	78%

15W Single Output DC-DC Converter

- · 2:1 wide input range
- · 2000VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage / Polarity
- · Built-in EMI filter, low ripple noise · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty





Line and load regulation ±1.0% (max.)

Overload protection 105%~150% hiccup mode, auto-recovery

Over voltage protection 115%~135% rated output voltage

Withstand voltageI/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance100MΩ(min.) @500VDC

Working temperature-10~+60°C (refer to output derating curve)

Safety standards Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8 Connection 3P, 2P / 3.96mm pitch, JST B3P/B2P-VH

Packing 0.081kg; 120pcs / 10.72kg

Model No.	Input	Output	R&N	Effi.
PSD-15A-5	9.2~18V	5V, 0~3.0A	50mV	74%
PSD-15A-12	9.2~18V	12V, 0~1.25A	100mV	67%
PSD-15A-24	9.2~18V	24V, 0~0.6A	100mV	72%
PSD-15B-5	18~36V	5V, 0~3.0A	50mV	78%
PSD-15B-12	18~36V	12V, 0~1.25A	100mV	78%
PSD-15B-24	18~36V	24V, 0~0.6A	100mV	78%
PSD-15C-5	36~72V	5V, 0~3.0A	50mV	78%
PSD-15C-12	36~72V	12V, 0~1.25A	100mV	78%
PSD-15C-24	36~72V	24V, 0~0.6A	100mV	79%



30W Single Output DC-DC Converter

 ϵ



- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Reverse polarity
- · 1500VAC I/O isolation
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- · 100% full load burn-in test
- · Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~13.5V, 24V: 22~26V
Line and load regulation ±1% (max.)
Overload protection 105%~150% hiccup mode, auto-recovery
Over voltage protection 115%~150% rated output voltage
Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
Working temperature20~+60°C (refer to output derating curve)
EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, EN55024
Connection

Model No.	Input	Output	R&N	Effi.	
PSD-30A-05	9~18V	5V, 0~5.0A	100mV	77%	
PSD-30A-12	9~18V	12V, 0~2.5A	120mV	77%	
PSD-30A-24	9~18V	24V, 0~1.25A	150mV	78%	
PSD-30B-05	18~36V	5V, 0~5.0A	100mV	79%	
PSD-30B-12	18~36V	12V, 0~2.5A	120mV	80%	
PSD-30B-24	18~36V	24V, 0~1.25A	150mV	83%	
PSD-30C-05	36~72V	5V, 0~5.0A	100mV	80%	
PSD-30C-12	36~72V	12V, 0~2.5A	120mV	82%	
PSD-30C-24	36~72V	24V, 0~1.25A	150mV	83%	

45W Single Output DC-DC Converter

CB(€



- 2:1 wide input range
- Protections:Short circuit / Overload / Over voltage / Reverse polarity
- · Cooling by free air convection
- · Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- · Fixed switching frequency at 96kHz
- · Low cost

DC adjustment range5V: 4.5~5.5V, 12V: 10.8~13.2V,

24V: 21.6~26.4V

Line and load regulation ±1% (max.)

Overload protection 105%~160% shut down, re-power on to recover

Over voltage protection 115%~135% rated output voltage

Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute

Working temperature-10~+60°C (refer to output derating curve)

Safety standardsEN60950-1 CB approved by TUV

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, EN55024

Connection2P, 6P / 3.96mm pitch, Molex 5277-02, 5273-06

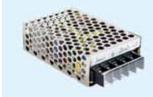
Packing 0.19kg; 72pcs / 15.6kg / 1.35CUFT

Model No.	Input	Output	R&N	Effi.
PSD-45A-05	9.2~18V	5V, 0~6.0A	100mV	74%
PSD-45A-12	9.2~18V	12V, 0~2.5A	120mV	78%
PSD-45A-24	9.2~18V	24V, 0~1.25A	150mV	79%
PSD-45B-05	18~36V	5V, 0~9.0A	100mV	77%
PSD-45B-12	18~36V	12V, 0~3.75A	120mV	82%
PSD-45B-24	18~36V	24V, 0~1.875A	150mV	85%
PSD-45C-05	37~72V	5V, 0~9.0A	100mV	80%
PSD-45C-12	37~72V	12V, 0~3.75A	120mV	83%
PSD-45C-24	37~72V	24V, 0~1.875A	150mV	86%

15W Single Output DC-DC Converter

(E

CASF: 931A



78x 51x 28 mm

- · 2:1 wide input range
- · 2000VAC I/O isolation
- · Cooling by free air convection
- · Protections: Short circuit / Over load / Over voltage
- · Built-in EMI filter, low ripple noise
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

DC adjustment range5V: 4.75~5.5V, 12V: 10.8~13.2V,

24V: 21.6~26.4V

Line and load regulation ±0.5% (max.)

Overload protection 105%~160% hiccup mode, auto-recovery

Over voltage protection 115%~135% rated output voltage

Withstand voltageI/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Working temperature-10~+60°C (refer to output derating curve)

Safety standard Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing 0.18kg; 60pcs / 11.8kg

Model No.	Input	Output	R&N	Effi.
SD-15A-5	9.2~18V	5V, 0~3.0A	100mV	68%
SD-15A-12	9.2~18V	12V, 0~1.25A	120mV	72%
SD-15A-24	9.2~18V	24V, 0~0.625A	150mV	70%
SD-15B-5	18~36V	5V, 0~3.0A	100mV	76%
SD-15B-12	18~36V	12V, 0~1.25A	120mV	76%
SD-15B-24	18~36V	24V, 0~0.625A	150mV	77%
SD-15C-5	36~72V	5V, 0~3.0A	100mV	75%
SD-15C-12	36~72V	12V, 0~1.25A	120mV	79%
SD-15C-24	36~72V	24V, 0~0.625A	150mV	78%

25W Single Output DC-DC Converter

CE



- · 2:1 wide input range
- · 1500VAC I/O isolation
- · Protections: Short circuit / Overload / Over voltage
- · Built-in EMI filter, low ripple noise
- · 100% full load burn-in test
- · Low cost, high reliability
- 99x 97x 36 mm 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V Line and load regulation ±0.5% (max.)

Overload protection 105%~150% hiccup mode, auto-recovery Over voltage protection 115%~165% rated output voltage

Withstand voltageI/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance100M Ω (min.) @500VDC

Working temperature-10~+60°C (refer to output derating curve)

Safety standards Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Model No.	Input	Output	R&N	Effi.
SD-25A-5	9.2~18V	5V, 0~5.0A	100mV	71%
SD-25A-12	9.2~18V	12V, 0~2.1A	120mV	72%
SD-25A-24	9.2~18V	24V, 0~1.1A	150mV	75%
SD-25B-5	19~36V	5V, 0~5.0A	100mV	72%
SD-25B-12	19~36V	12V, 0~2.1A	120mV	75%
SD-25B-24	19~36V	24V, 0~1.1A	150mV	78%
SD-25C-5	36~72V	5V, 0~5.0A	100mV	74%
SD-25C-12	36~72V	12V, 0~2.1A	120mV	78%
SD-25C-24	36~72V	24V, 0~1.1A	150mV	81%

DC/DC Converter 50~200W Enclosed Single Output



50W Single Output DC-DC Converter

(€



CASE: 901 159x 97x 38 mm

- · 2:1 wide input range
- · 1500VAC I/O isolation
- · Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

DC adjustment range	5V: 4.5~5.5V	, 12V: 11~16V,	24V: 23~30V
I for a result for all manufactures.	0 50/ / 1		

Line and load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~150% hiccup mode, auto-recovery Over voltage protection115%~165% rated output voltage

Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance 100MΩ(min.) @500VDC

Working temperature -10~+60°C (refer to output derating curve)

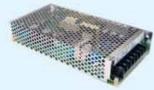
Safety standard Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8 Packing 0.53kg; 24pcs / 12.7kg / 0.75CUFT

Model No.	Input	Output	R&N	Effi.	
SD-50A-5	9.2~18V	5V, 0~10A	100mV	70%	
SD-50A-12	9.2~18V	12V, 0~4.2A	120mV	72%	
SD-50A-24	9.2~18V	24V, 0~2.1A	150mV	74%	
SD-50B-5	19~36V	5V, 0~10A	100mV	73%	
SD-50B-12	19~36V	12V, 0~4.2A	120mV	75%	
SD-50B-24	19~36V	24V, 0~2.1A	150mV	80%	
SD-50C-5	36~72V	5V, 0~10A	100mV	76%	
SD-50C-12	36~72V	12V, 0~4.2A	120mV	78%	
SD-50C-24	36~72V	24V, 0~2.1A	150mV	83%	

100W Single Output DC-DC Converter

CB(E



CASE: 902

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter, low ripple noise
- · 100% full load burn-in test
- · Low cost, high reliability
- 199x 98x 38 mm 2 years warranty

DC adjustment range	5V: 4.5~5.5V,	12V: 11~16V,	24V: 23~30V
Line regulation	+0.5% (max.)		

Load regulation ±0.5% (max.)

Overload protection 105%~135% hiccup mode, auto-recovery Over voltage protection 115%~165% rated output voltage

Withstand voltageI/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance 100MΩ(min.) @500VDC

Working temperature-10~+60°C (refer to output derating curve)

Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only) EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing 0.65kg; 20pcs / 13.8kg / 0.8CUFT

-	ū			
Model No.	Input	Output	R&N	Effi.
SD-100B-5	19~36V	5V, 0~20A	100mV	74%
SD-100B-12	19~36V	12V, 0~8.5A	120mV	75%
SD-100B-24	19~36V	24V, 0~4.2A	150mV	78%
SD-100C-5	36~72V	5V, 0~20A	100mV	75%
SD-100C-12	36~72V	12V, 0~8.5A	120mV	77%
SD-100C-24	36~72V	24V, 0~4.2A	150mV	81%
SD-100D-5	72~144V	5V, 0~20A	100mV	76%
SD-100D-12	72~144V	12V, 0~8.5A	120mV	80%
SD-100D-24	72~144V	24V, 0~4.2A	150mV	83%

150W Single Output DC-DC Converter

CB (E



- · 2:1 wide input range
- · 1500VAC I/O isolation
- · Protections: Short circuit / Over load / Over voltage
- · Built-in EMI filter, low ripple noise
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

DC adjustment range 12V: 11~16V, 24V: 23~30V
Line regulation ±0.5% (max.)
Load regulation ±0.5% (max.)
Overload protection 105%~135% hiccup mode, auto-recovery
Over voltage protection 130%~165% rated output voltage
Withstand voltageI/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
Isolation resistance 100M Ω (min.) @500VDC
Working temperature10~+60°C (refer to output derating curve)
Safety standards Meet LVD, EN60950-1 CB approved by TUV
(D type only)
EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing	0.861	kg ; 16pcs / 14.5kg /	0.95CUFT	
Model No.	Input	Output	R&N	Effi.
SD-150B-12	19~36V	12V, 0~12.5A	120mV	75%
SD-150B-24	19~36V	24V, 0~6.3A	150mV	77%
SD-150C-12	36~72V	12V, 0~12.5A	120mV	77%
SD-150C-24	36~72V	24V, 0~6.3A	150mV	80%
SD-150D-12	72~144V	12V, 0~12.5A	120mV	79%
SD-150D-24	72~144V	24V, 0~6.3A	150mV	82%

200W Single Output DC-DC Converter

c91³ ∪s CB (€



- 2:1 wide input range
- · 1500VAC I/O isolation
- · Protections: Short circuit / Overload / Over voltage / Over temp.
- · Cooling by free air convection
- · 100% full load burn-in test
- · 2 years warranty

DC adjustment range 5	5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V,
4	48V: 43~53V
Voltage tolerance	±2% (max.)
Overload protection	105%~135% shut off, re-power on to recover
	110%~167% rated output voltage
Withstand voltage I	I/P-O/P: 1.5kVAC, I/P-FG: 2kVAC, 1 minute
	-20~+60°C (refer to output derating curve)
Safety standards	Meet LVD, EN60950-1 CB approved by TUV
((D type only)
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8
Packing	1.1kg ; 12pcs / 14.4kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-200B-5	19~36V	5V, 0~34.0A	100mV	79%
SD-200B-12	19~36V	12V, 0~16.7A	120mV	82%
SD-200B-24	19~36V	24V. 0~8.40A	150mV	85%
SD-200B-48	19~36V	48V. 0~4.20A	200mV	86%
SD-200C-5	36~72V	5V. 0~40.0A	100mV	81%
SD-200C-3	36~72V	12V. 0~16.7A	120mV	84%
SD-200C-12	36~72V	24V. 0~8.40A	150mV	86%
		, , , , , , , , , , , , , , , , , , , ,		
SD-200C-48	36~72V	48V, 0~4.20A	200mV	86%
SD-200D-5	72~144V	5V, 0~40.0A	100mV	82%
SD-200D-12	72~144V	12V, 0~16.7A	120mV	82%
SD-200D-24	72~144V	24V, 0~8.40A	150mV	84%
SD-200D-48	72~144V	48V, 0~4.20A	200mV	90%

DC/DC Converter 350~1000W Enclosed Single Output



350W Single Output DC-DC Converter

CB(€



- 2:1 wide input range
- · 1500VAC I/O isolation
- · Protections: Short circuit / Over load / Over voltage / Over temp.
- · Forced air cooling by built-in DC fan
- · 100% full load burn-in test
- · 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V,
48V: 43~53V
Voltage tolerance ±2% (max.)
Overload protection 105%~135% shut off, re-power on to recover
Over voltage protection 110%~167% rated output voltage
Withstand voltageI/P-O/P: 1.5kVAC, I/P-FG: 2kVAC, 1 minute
Working temperature20~+60°C (refer to output derating curve)
Safety standards Meet LVD, EN60950-1 CB approved by TUV
(D type only)
EMC standardsEN55022 class B, EN61000-4-2,3,4,6,8
Packing 1.1kg ; 12pcs / 14.4kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-350B-5	19~36V	5V, 0~57.0A	100mV	74%
SD-350B-12	19~36V	12V, 0~27.5A	120mV	80%
SD-350B-24	19~36V	24V, 0~14.6A	150mV	80%
SD-350B-48	19~36V	48V, 0~7.30A	200mV	84%
SD-350C-5	36~72V	5V, 0~60.0A	100mV	76%
SD-350C-12	36~72V	12V, 0~27.5A	120mV	81%
SD-350C-24	36~72V	24V, 0~14.6A	150mV	81%
SD-350C-48	36~72V	48V, 0~7.30A	200mV	82%
SD-350D-5	72~144V	5V, 0~60.0A	100mV	78%
SD-350D-12	72~144V	12V, 0~29.2A	120mV	83%
SD-350D-24	72~144V	24V, 0~14.6A	150mV	87%
SD-350D-48	72~144V	48V. 0~7.30A	200mV	89%

500W Single Output DC-DC Converter

CBCE



- 4:1 & 2:1 DC input range
- · DC input active surge current limiting
- Protections: Short circuit / Overload / Over voltage / Over temp./ Input polarity
- 2000VAC I/O Isolation
- Forced air cooling by built-in DC fan with fan speed control function
- Output OK signal
- · Built-in remote ON/OFF control
- Built-in remote sense function
- · 3 years warranty

DC adjustment range 12V: 11~15V, 24V: 23~30V, 48V: 46~60V

Line regulation ±0.5% (max.) Load regulation ±0.5% (max.)

Overload protection 105%~125% constant current limiting, shut off after

5 sec., re-power on to recover Over voltage protection 130%~160% rated output voltage Withstand voltage I/P-O/P: 2kV, I/P-FG: 2kV, 1 minute Isolation resistance 100M Ω (min.) @500VDC

Working temperature -20~+60°C (refer to output derating curve) Safety standards IEC60950-1 CB approved by TUV EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing1.15kg; 12pcs / 14.8kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-500L-12	19~72V	12V, 0~40A	150mV	86%
SD-500L-24	19~72V	24V, 0~21A	150mV	88%
SD-500L-48	19~72V	48V, 0~10.5A	150mV	89%
SD-500H-12	72~144V	12V, 0~40A	150mV	87%
SD-500H-24	72~144V	24V, 0~21A	150mV	89%
SD-500H-48	72~144V	48V, 0~10.5A	150mV	90%

1000W Single Output DC-DC Converter

CBCE



- 4:1 & 2:1 wide input range
- · 2000VAC I/O Isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- · Forced air cooling by built-in DC fan
- · High power density 10.7W/inch3
- 1U low profile 41mm
- Output OK signal
- 12V / 0.25A auxiliary output
- · Built-in remote ON/OFF control
- Built-in remote sense function
- · 3 years warranty

DC adjustment range 12V: 11~15V, 24V: 23~30V, 48V: 46~60V
Line regulation ±0.5% (max.)
Load regulation ±0.5% (max.)
Overload protection 105%~125% constant current limiting,
shut off after 5 sec., re-power on to recover
Over voltage protection 130%~160% rated output voltage
Withstand voltageI/P-O/P: 2kV, I/P-FG: 1.5kV, 1 minute
Isolation resistance100MΩ(min.) @500VDC
Working temperature20~+60°C (refer to output derating curve)
Safety standards IEC60950-1 CB approved by TUV
EMC standards EN55022 class B, EN61000-4-2,3,4,6,8
Packing 1.94kg ; 6pcs / 12.6kg / 0.99CUFT

Model No.	Input	Output	R&N	Effi.
SD-1000L-12	19~72V	12V, 0~60A	150mV	84%
SD-1000L-24	19~72V	24V, 0~40A	150mV	88%
SD-1000L-48	19~72V	48V, 0~21A	150mV	90%
SD-1000H-12	72~144V	12V, 0~60A	150mV	85%
SD-1000H-24	72~144V	24V, 0~40A	150mV	89%
SD-1000H-48	72~144V	48V, 0~21A	150mV	92%



- Universal AC input / Full range
- 1U low profile 41mm
- · Built-in active PFC function
- · High efficiency up to 93%
- · Forced air cooling by built-in DC fan with fan speed control
- · Vo and Io can be adjusted
- Protections: Short circuit / Over voltage / Over temperature
- · Built-in remote ON-OFF control
- · Built-in CANBus interface
- Output models: 14.4V/28.8V/57.6V • Dimension(LxWxH): 320x 85x 41mm
- 3 years warranty

DC/DC Converter 100~300W Railway Single Output





Features

- Compliance to EN50155 and EN45545-2 railway standard
- 2:1 wide input range
- 4000VDC I/O isolation
- Protections:
 Short circuit / Overload / Over voltage /
 Input reverse polarity / Over temp.(RSD-150/200/300)
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile
- All using 105°C long life electrolytic capacitors
- Half encapsulated
- 100% full load burn-in test

Input (1 sec / continuous)

3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



R&N

Output

Effi.

Model No.		RSD-100	RSD-150	RSD-200	RSD-300	
Line regulation (max.)		±0.5%				
Load regula	ation (max.)	±1%				
Overload	Range	105%~135%				
protection	Туре	Constant current limiting, re	covers automatically after fa	ult condition is removed		
Over voltag	e protection	115%~135% Shut down O/P voltage, re-power on to recover 115%~140%				
Withstand voltage		I/P-O/P: 4kVDC, I/P-FG: 2.5kVDC, O/P-FG: 2.5kVDC, 1 minute				
Isolation resistance		100MΩ(min.) @500VDC				
Working ter	mperature	-40~+70°C (refer to output derating curve)				
Safety stan	dards	Meet IEC60950-1(LVD)				
EMC standards		EN55022 class B, EN50121-3-2, EN61000-4-2,3,4,5,6,8				
Railway standard Dimension (LxWxH)(mm) Packing		EN50155 / IEC60571; EN45545-2				
		161x68x36	189x77x36	191x86x40	216x97x40	
		24pcs / 15.4kg	15pcs / 13kg	12pcs / 12.3kg	12pcs / 15.3kg	

Model No.

100W			RSE)-100
Model No. RSD-100B-5 RSD-100B-12 RSD-100B-24 RSD-100C-5 RSD-100C-12	Input (1 sec / continuous) 14.4-33.6V / 16.8-31.2V 14.4-33.6V / 16.8-31.2V 14.4-33.6V / 16.8-31.2V 28.8-67.2V / 33.6-62.4V 28.8-67.2V / 33.6-62.4V	Output 5V, 0~20A 12V, 0~8.4A 24V, 0~4.2A 5V, 0~20A 12V, 0~8.4A	R&N 100mV 120mV 150mV 100mV	Effi. 88.0% 89.0% 89.0% 89.0% 91.0%
RSD-100C-24 RSD-100D-5 RSD-100D-12 RSD-100D-24	28.8~67.2V / 33.6~62.4V 57.6~154V / 67.2~143V 57.6~154V / 67.2~143V 57.6~154V / 67.2~143V	24V, 0~4.2A 5V, 0~20A 12V, 0~8.4A 24V, 0~4.2A	150mV 100mV 120mV 150mV	91.0% 89.5% 91.0% 90.0%
13000	In march		KSL	J-13U
Model No. RSD-150B-5 RSD-150B-12 RSD-150B-24 RSD-150C-5 RSD-150C-12 RSD-150C-24 RSD-150D-5 RSD-150D-12 RSD-150D-24	Input (1 sec / continuous) 14.4-33.6V / 16.8-31.2V 14.4-33.6V / 16.8-31.2V 14.4-33.6V / 16.8-31.2V 28.8-67.2V / 33.6-62.4V 28.8-67.2V / 33.6-62.4V 28.8-67.2V / 33.6-62.4V 57.6-154V / 67.2-143V 57.6-154V / 67.2-143V	Output 5V, 0~30A 12V, 0~12.5A 24V, 0~6.3A 5V, 0~30A 12V, 0~12.5A 24V, 0~6.3A 5V, 0~30A 12V, 0~12.5A 24V, 0~6.3A	R&N 100mV 120mV 150mV 100mV 120mV 150mV 120mV 150mV	89% 90% 90% 92% 91% 90% 92% 91%
200W			RSE)-200
Model No. RSD-200B-12 RSD-200B-24 RSD-200B-48 RSD-200C-12 RSD-200C-24	Input (1 sec / continuous) 14.4-33.6V / 16.8-31.2V 14.4-33.6V / 16.8-31.2V 28.8-67.2V / 33.6-62.4V 28.8-67.2V / 33.6-62.4V	Output 12V, 0~16.7A 24V, 0~8.4A 48V, 0~4.2A 12V, 0~16.7A 24V, 0~8.4A	R&N 120mV 150mV 180mV 120mV	Effi. 89% 89% 89% 91% 91%

	RSD-200C-48	28.8~67.2V / 33.6~62.4V	48V, 0~4.2A	180mV	91%
	RSD-200D-12	57.6~154V / 67.2~143V	12V, 0~16.7A	120mV	91%
	RSD-200D-24	57.6~154V / 67.2~143V	24V, 0~8.4A	150mV	91%
	RSD-200D-48	57.6~154V / 67.2~143V	48V, 0~4.2A	180mV	91%
300W				RSI	0-300
	Model No.	Input (1 sec / continuous)	Output	R&N	Effi.
	RSD-300B-5	14.4~33.6V / 16.8~31.2V	5V, 0~42A	100mV	89.0%
	RSD-300B-12	14.4~33.6V / 16.8~31.2V	12V, 0~22.5A	120mV	89.5%
	RSD-300B-24	14.4~33.6V / 16.8~31.2V	24V, 0~11.3A	150mV	90.0%
	RSD-300B-48	14.4~33.6V / 16.8~31.2V	48V, 0~5.7A	180mV	91.5%
	RSD-300C-5	28.8~67.2V / 33.6~62.4V	5V, 0~42A	100mV	90.5%
	RSD-300C-12	28.8~67.2V / 33.6~62.4V	12V, 0~25A	120mV	91.0%
	RSD-300C-24	28.8~67.2V / 33.6~62.4V	24V, 0~12.5A	150mV	91.5%
	RSD-300C-48	28.8~67.2V / 33.6~62.4V	48V, 0~6.3A	180mV	92.0%
	RSD-300D-5	57.6~154V / 67.2~143V	5V, 0~42A	100mV	90.0%
	RSD-300D-12	57.6~154V / 67.2~143V	12V, 0~25A	120mV	91.5%
	RSD-300D-24	57.6~154V / 67.2~143V	24V, 0~12.5A	150mV	91.5%
	RSD-300D-48	57.6~154V / 67.2~143V	48V, 0~6.3A	180mV	91.5%
	RSD-300E-5	21.6~50.4V / 25.2~46.8V	5V, 0~42A	100mV	88.0%
	RSD-300E-12	21.6~50.4V / 25.2~46.8V	12V, 0~25A	120mV	90.0%
	RSD-300E-24	21.6~50.4V / 25.2~46.8V	24V, 0~12.5A	150mV	91.0%
	RSD-300E-48	21.6~50.4V / 25.2~46.8V	48V, 0~6.3A	180mV	91.0%
	RSD-300F-5	43.2~100.8V / 50.4~93.6V	5V, 0~42A	100mV	89.0%
	RSD-300F-12	43.2~100.8V / 50.4~93.6V	12V, 0~25A	120mV	91.0%
	RSD-300F-24	43.2~100.8V / 50.4~93.6V	24V, 0~12.5A	150mV	91.0%
	RSD-300F-48	43.2~100.8V / 50.4~93.6V	48V, 0~6.3A	180mV	91.5%

Other Power Solutions



LED Power Family





Outdoor Lighting

- 40~600W
- HLG, HVG, CLG series, etc.



■ Indoor Lighting

- 8~150W
- AP, LP, NPF, PLM, HLP, GSC*, OWA*
 series, etc.
 External power supply



■ Intelligent Lighting

- 25~150W
- LCM, ELG, WPD series, etc.



■ Bay Lighting

- Strip Lighting
 40~120W
- 60~240WHBG series
- PWM series

▶ Please contact with our sales representative for new LED catalog or visit our website: www.meanwell.com/product/led/led.html

Inverter Family

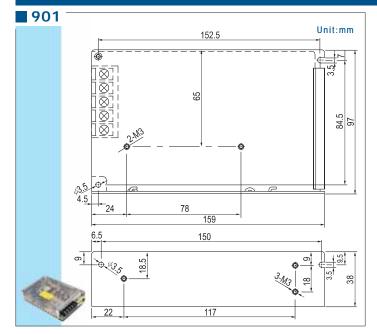


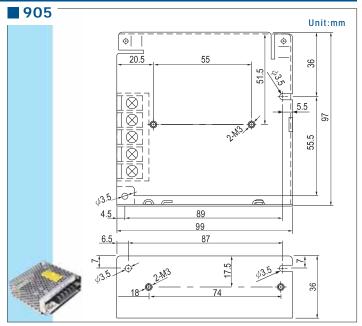


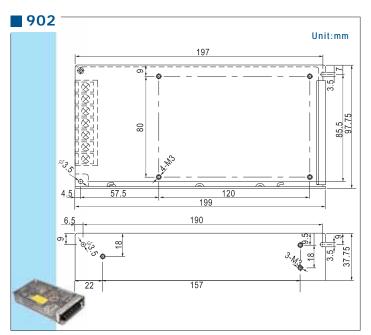


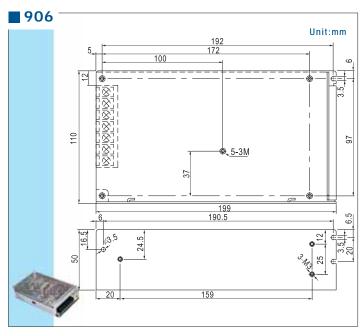
► Please contact with our sales representative for new inverter catalog or visit our website: www.meanwell.com/product/inverter/inverter01.html

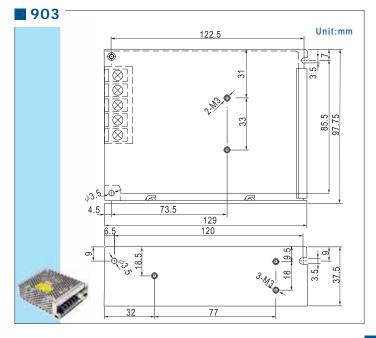


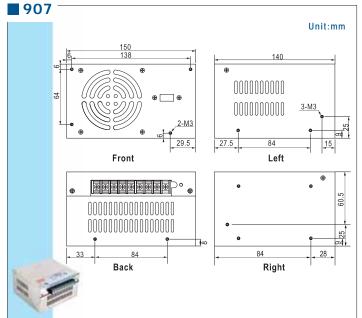




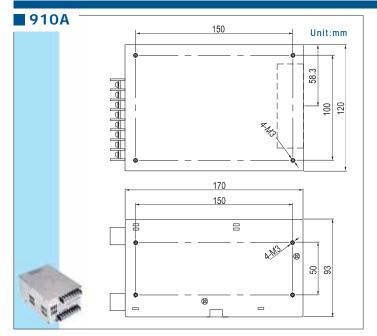


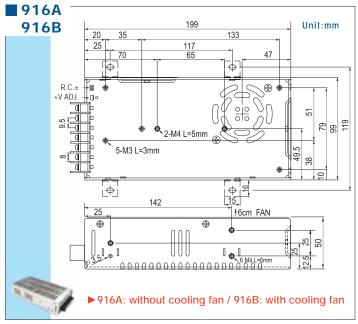


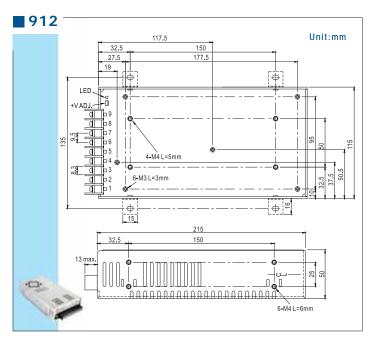


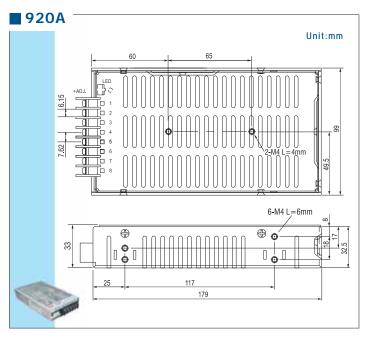


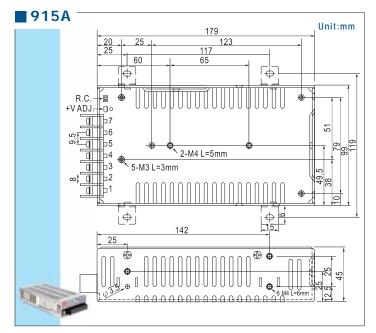


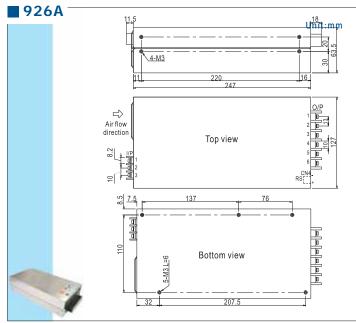




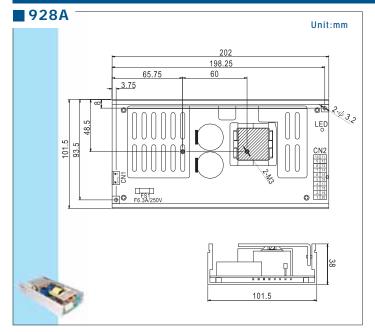


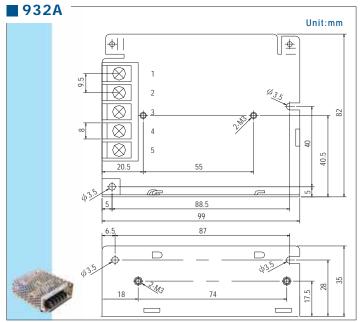


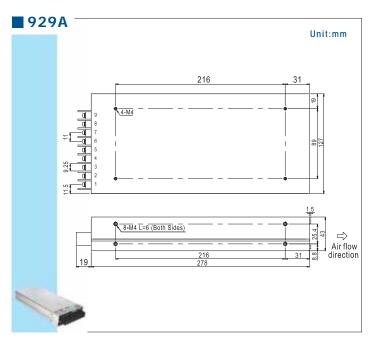


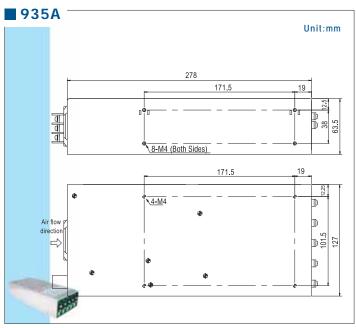


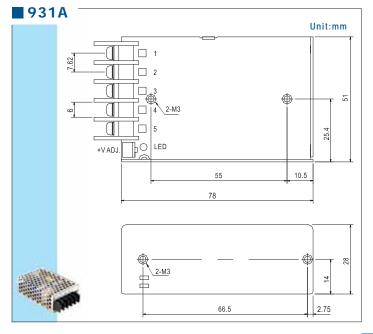


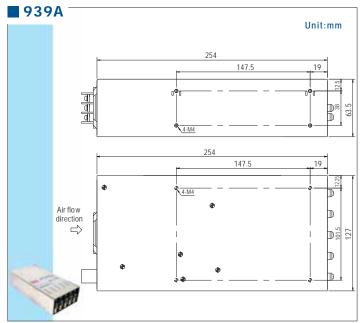




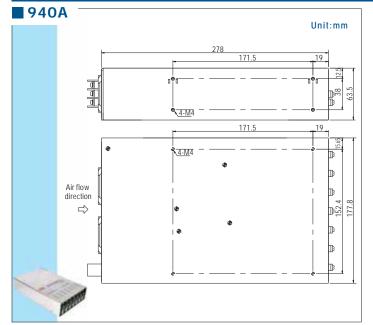


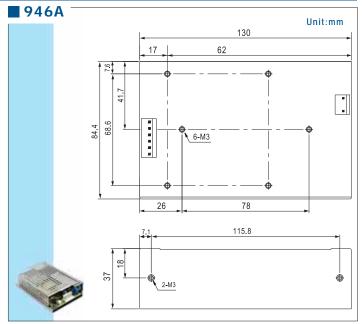


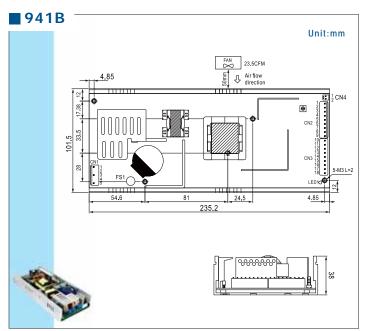


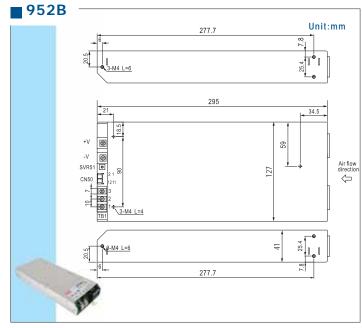


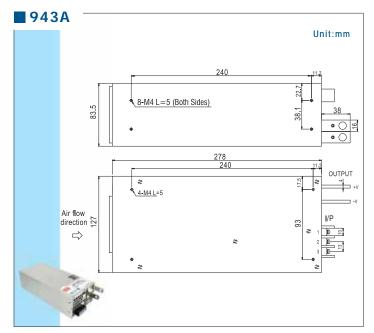


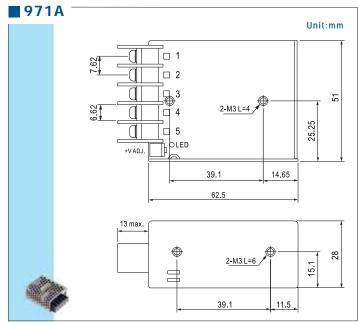




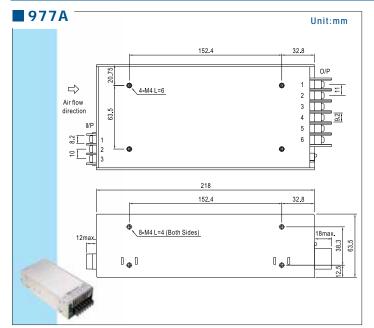


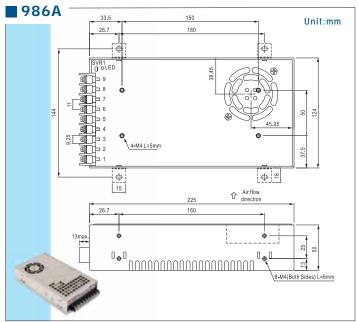


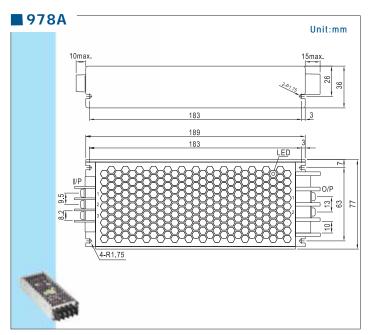


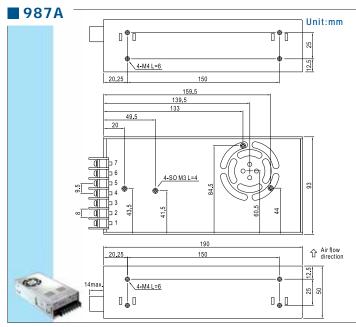


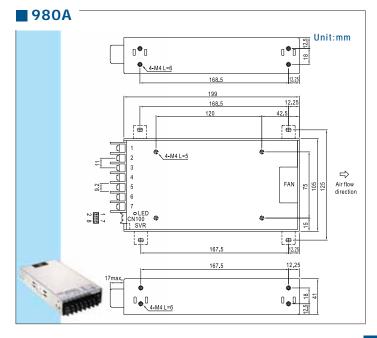


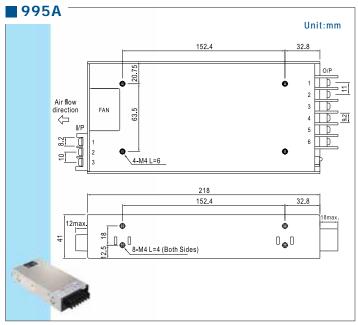




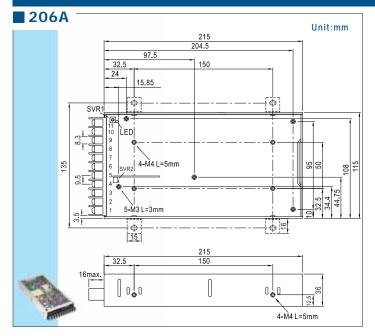


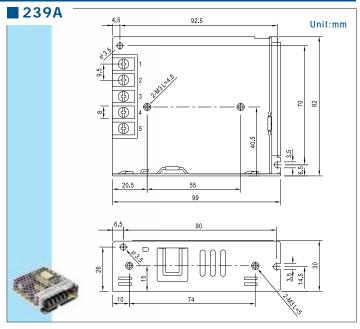


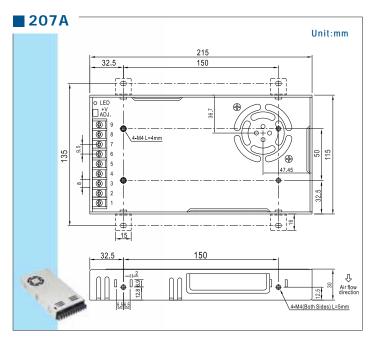


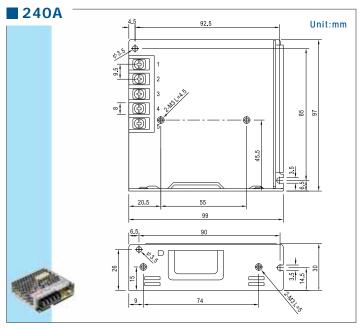


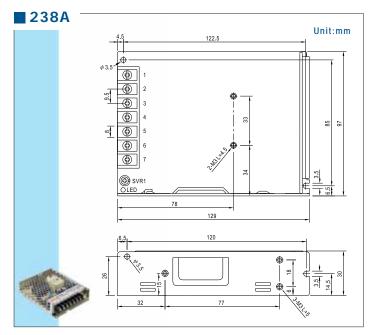


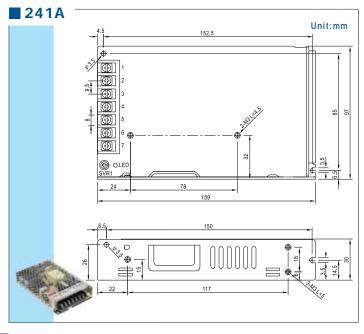






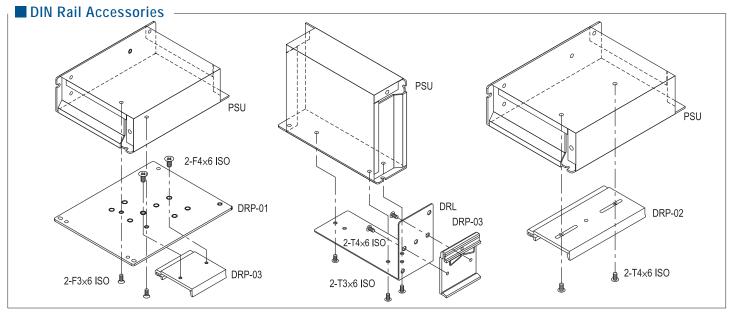


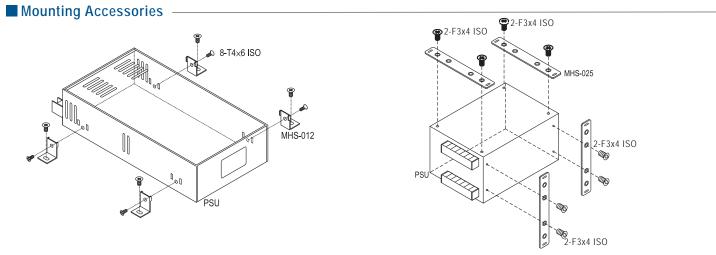




Accessories







ITEM	Order No.	Case	Model
-	DRL-01	903 905 931 932 971	S-40, D-30, T-30, S-15, S-25, RS-25, NES-15 RS-35, NES-25 RS-15
-	DRL-02	901 902 906 915 916 920	S-50, S-60, D-60, S-100, S-100F, SD-100, S-150, SD-150, D-120, SP-100, SP-150, SP-200, SP-75,
	DRL-03A	980 987	SP-240, HRP(G)-300
1	DRP-01	901, 902 903, 906 931, 932 946	All models
	DRP-01A	203 205 978 999	RSD-100 / 150 / 200 / 300
4	DRP-02	905 / 915 916 / 920 928	S-15, S-25, / SP-100, SP-150, SP-200, / SP-75, USP-225,
2	DRP-03	DRP-01 DRL-01~03	All models
7	DRP-04	203 205 978 999	RSD-100 / 150 / 200 / 300

ITEM	Order No.	Case	Model
4	MHS012	206, 207 912, 915 916, 935 939, 940 977, 980 982, 986 987, 995	HDP-190, RSP-200/320, S-201, S-320, S-350, SP-100, SP-150, SP-200, SP-320, SE-450/1000, MP450/650/1000, SP-240, HRP-300/450/600, RSP-2400/3000
Be	MHS013	919 926	PSP-500, SP-750, SE-600
6	MHS014	212 952	RSP-750 RSP-1000, SD-1000
600000	MHS025	910	SP-500, PSP-600
4	MHS026	943	RSP-1500
ATT 100	MHS027	971 931	RS-15 RS-25
	TBC-05	901 903 905 932 220 239A 240A	SD-50, S-60 S-40, NES-50, RS-75 S-25, SD-25, NES-35, RS-50 NES-25, RS-35 RSP-75 LRS-35/50 LRS-75
TBC is the cover for terminal block	TBC-07	901 902 903 905 906 215A 227A 238A 241A 901	D/ID-60, NED/T-75, RD-85, NES-100, RS-100, T-60 S-100F, RD-125, NES-150, RS-150, SD-100, NED/T-35, RD-8150, SD-150, SD-150, SD-150, SD-150, SD-150, SD-150, RSP-150, LRS-150,
	TBC-09	207	RSP-200/320, LRS-200/350

General Information



Quotation

- Most of our standard products are available and in stock through our global authorized distributors. Please contact your local distributor for prompt service. Please let us know if you are unable to find Mean Well's distributor information in your local area.
- Written quotations are valid for 60 days from the date quoted unless otherwise specified. Customers are responsible for all banking related charges outside of Taiwan.

Order

- Orders must be placed to Mean Well by mail, e-mail, or fax. Please do not place your order by phone. For international business, Mean Well will provide order confirmations with scheduled delivery dates. If you fail to receive an order confirmation within 2 working days, please reconfirm your order.
- Minimum order amounts per shipment are determined by our local distributor's stock capability. Please contact our sales representative for details.
- We encourage customers to place long-term orders. However, order cancellations or reschedules must be made 45 days prior to the scheduled shipping date.

Delivery

■ For our standard products, Mean Well usually keeps around 2-8 weeks safety stock (based on the past 3 months sales record) for prompt delivery of small / medium quantity orders. For large quantity or new product orders, 3-5 weeks lead-time is needed.

Return

All returned goods must have a RMA (return material authorization) number marked on each carton. Contact Mean Well for a RMA number. All goods must be shipped as "freight prepaid" unless otherwise confirmed by our sales representatives.

Warranty

- Products found to be defective within 30 days from the date of receipt can be returned for credit or exchange. After the initial 30 days, Mean Well will repair the goods according to our warranty period. Contact Mean Well for further information on credit or a RMA number. Goods should be shipped as "freight prepaid" to Mean Well and Mean Well will repair and return the defective units (freight prepaid) within 7 working days. If the warranty period has expired, a repair fee (depends on the condition of the product) will be charged.
- If customers do the repair by themselves, Mean Well can provide reasonable quantity of free components for repair purpose.
- Apart from the external type power supply, the power supply is in general one component of the final system; particularly, the compatibility between the power supply and the system is closely associated. Should you have any difficulty in normally operating the power supplies, please contact our sales representatives and figure out the root cause. If the problem results from the power supply, the warranty right will be applied; if any issues arise from inappropriate installation or incompatibility between the power supply and the system, MEAN WELL will reserve the right to fulfill the warranty.

Attention

- We make every effort to ensure the accuracy of information in the catalog. If there is any discrepancy between the data presented in our catalog and the SPEC, the SPEC sheets should take precedence (please refer to www.meanwell.com for the latest SPEC information). We cannot take any responsibility of any consequence arising due to error or change in specification. We suggest customers conduct a sample test for evaluation and approval before placing a formal order.
- For continuing product improvement, Mean Well reserves the right to revise any information in this catalog without further notification.

The EMC directive applies to component power supplies

Mean Well ensures that all of the power supplies with CE declaration are designed to meet EMC directives and are verified by an independent certified lab agent with a test report prepared. However, there are 2 categories for power supplies: One is a stand-alone power supply, such as laboratory power supplies which can be tested under EMC individually. The other category is a component power supply such as an enclosed power supply and open PCB power supply. These power supplies are considered a component which will be installed into a final equipment. Since EMC performance is affected by the final installation of a product, Mean Well cannot guarantee that the final equipment will meet EMC directives. Final product manufacturers must re-confirm that their product meets EMC directives.



Taiwan

明緯企業股份有限公司 MEAN WELL ENTERPRISES CO., LTD. 24891 新北市五股區五權三路28號

No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 24891, Taiwan (R.O.C.)

統一編號:34491075

Tel:+886-2-2299-6100(rep.) Fax:+886-2-2299-6200(rep.) +886-2-2298-0818(sales)

E-mail:info@meanwell.com

http://www.meanwell.com

U.S.A.

MEAN WELL USA, INC.

44030 Fremont Blvd., Fremont, CA 94538, U.S.A.

Tel:+1-510-683-8886

Fax: +1-510-683-8899

E-mail:info@meanwellusa.com http://www.meanwellusa.com

Europe

MEAN WELL EUROPE B.V.

Langs de Werf 8, 1185XT Amstelveen, The Netherlands

Tel:+31-20-758-6000 Fax:+31-20-758-6001

E-mail:info@meanwell.eu http://www.meanwell.eu

China

明緯(廣州)電子有限公司

MEAN WELL (GUANGZHOU) ELECTRONICS CO., LTD.

廣州市天河區東圃鎭黃村粵安工業園A棟2樓

2F, A Building, Yuean Industry Park,

Huangcun, Dongpu Town, Tianhe District,

Guangzhou, China Post Code: 510660

Tel:+86-20-2887-1200(rep.) 400-800-3608(sales)

Fax: +86-20-8201-0507

E-mail:info@meanwell.com.cn http://www.meanwell.com.cn

蘇州明緯科技有限公司

SUZHOU MEAN WELL TECHNOLOGY CO., LTD.

江蘇省蘇州市相城區黃埭鎭潘陽工業園東橋健民路77號 No.77, Jian-Ming Rd. Dong-Qiao, Pan-Yang Ind. Park, Huang-Dai Town, Xiang-Cheng District, Suzhou,

Jiang-Su, China
Post Code: 215152
Tel:+86-512-6508-8600
Fax:+86-512-6508-8700
E-mail:info@meanwell.cc

http://www.meanwell.cc

Please Contact Your Local Distributor







LED Power Supply



<u>October</u> 2014



stablished in 1982, MEAN WELL is a leading standard switching power supply manufacturer with advanced manufacturing facilities in Taiwan, GuangZhou, and SuZhou as well as sales offices in China, USA, and Europe. We have more than 5,000 standard models selling through 200 authorized distributors all over the world.

Since 2006, we started to endeavor the development for waterproof LED power supplies. Thus far, more than 1000 models complying with specific lighting norms per UL8750, UL1310, UL879, EN61347-2-13, IEC61347-2-13(CB), and EN61000-3-2 Class C (harmonic current) have been launched in the market with utmost success. In this catalog, we are glad to introduce you different types of LED power supplies, which are very suitable for all kinds of outdoor or indoor LED lighting related applications, such as LED street lighting, LED tunnel lighting, outdoor electronic display, office lighting, LED decorative lighting, LED architectural lighting and others.

If these LED power supplies cannot directly fulfill your requirement, please look into MEAN WELL standard industrial switching power supplies, ranging from 5W to 5,000W, for more selection. Please visit our website for more details — www.meanwell.com

New Products Overview



LCM-25(DA)/40(DA)/60(DA)

25~60W Multiple-Stage Io Level Selectable

- · Class II (no F.G.), 180~277VAC input with PFC
- · No load power consumption<0.5~1W
- Dimming function: 0~10VDC / PWM signal / DALI interface / Push dimming
- Support synchronization function up to 10 units
- · Output current level selectable by DIP switch: 350 / 500 / 600 / 700 / 900 / 1050 / 1400mA
- · 3 years warranty

PWM-40/60/90/120

40~120W PWM Output with PFC

- Page
- · Class II (no F.G.), 90~305VAC input
- · Constant voltage PWM style output
- No load power consumption<0.5W
- 2 in 1 dimming function
- · Output models: 12V / 24V / 36V / 48V
- 5 years warranty



HLG-600H

600W High Efficiency with PFC

- 90~305VAC input
- · High efficiency up to 96%
- · Fanless design and high IP level, suitable for outdoor environment
- · Output models: 12V / 15V / 20V / 24V / 30V / 36V / 42V / 48V / 54V
- 5 years warranty



Contents

AP series	12~35W	2	HLP series	40~80W	21
 Low Cost with Rectange 	ular Plastic Case		PFC FunctionPCB Typ3 in 1 Dimming Function		
LP series	18~150W	3~6	CEN series	60~96W	22
Economical with Slim PIP67	iastic Case		■ PFC Function ■ Metal C		22
ELN series	30~60W	7	CLG series	60~150W	23
Dimming Option Plas	stic Case		■ PFC Function ■ Metal Ca		23
GSC series	18~40W	8	HLG series		24~27
PFC Function • AdaptoEconomical with Plastic			High Efficiency with PFC	40~600W Function TAIWAN	24~27
OWA series	60~120W	9	■ Metal Case ■ 3 in 1 Dim	nming Function	
■ PFC Function (90~120W	/) • Plastic Case	3	■ IP65 & IP67 ■ 5 Years Wa	arranty	
External Power = 5 Year	irs Warranty		HLG-C series	70~200W	28
PCD series	16~60W	10	C.C. Output with High C		
PFC Function • PlasticAC Phase-cut Dimming	Case		PFC FunctionMetal Ca3 in 1 Dimming Function		
PLD series	16~60W	11	■ IP65 & IP67 ■ 5 Years W		
■ PFC Function ■ Plastic	Case		HVG(C) series	65~150W	29~30
PLM series	12~40W	12	■ PFC Function ■ Metal Ca		
PFC FunctionPush TeEconomical with Plastic			■ 180~528VAC Wide Input	_	
	Case		 C.C. Output with High O for HVGC Series 	utput voitage >60VDC	
LPF series	16~90W	13	5 Years Warranty		
PFC Function • Plastic3 in 1 Dimming Function	EXCELLENCE 2012		HBG series	60~240W	31
■ IP67 ■ 5 Years Warrant	У		■ PFC Function ■ Circular		
NPF series	40~120W	14	3 in 1 Dimming Function5 Years Warranty	I ■ IPO3 & IPO7	
■ PFC Function ■ Plastic			HSG series	70W	32
3 in 1 Dimming FunctiLow No Load Power Co			■ PFC Function ■ Rectang	ular Metal Case • IP65	
■ IP67 ■ 5 Years Warrar			ULP series	150W	
PWM series	40~120W	15	U-bracket TypeBuilt-in lighting fixture	inction	
PFC FunctionC.V. PPlastic Case2 in 1 D			SPD-20		
■ IP67 ■ 5 Years Warran			 20kA Surge Protection De 	evice • Plastic Case	
PLC series	30~96W	16	DAP-04		33
PFC Function • PlasticScrew Terminal I/O	Case		DALI to PWM Converter4 DALI Addressable Outp	out Channals	
PLN series	20~96W	17		ngle Channel DC/DC Driver	
■ PFC Function ■ Plastic			• Step-up Driver • Constan		
HLN series	40~80W	18	Pin Style / Wire Style		
PFC Function • Plastic3 in 1 Dimming Function				ngle Channel DC/DC Driver	34~35
-			LDD: Step-down Driver;Plastic Case - Constant		
LCM series	25~60W	19	Pin Style / Wire Style / S	·	
PFC FunctionPlastic Case with Push			Waterproof Output C	onnector	36
 Multiple-Stage C.C. Level S 	Selectable by DIP S.W.		How to Choose A Su	itable LED	37
 DALI Interface and Push 	I DIIVI		Power Supply?		
PLP series	20~60W	20	Quick Selection Map		38~39
PFC FunctionPCB Type	pe		Comparison Chart		40~41



Features

- · Universal AC input / Full range
- · Fully isolated plastic case
- · Protections: Short circuit / Overload (APV only) / Over voltage · Cooling by free air convection
- · Constant voltage mode for APV series
- Constant current mode for APC series
- IP30 design
- Withstand 300VAC surge input for 5 seconds (APV/C-25/35)
- Class 2 power unit / Pass LPS (except for APC-25-350 & APC-35-350/500)
- · Isolation class II, no F.G.
- · 100% full load burn-in test
- · Low cost, high reliability
- · Suitable for LED lighting and moving sign applications
- · 2 years warranty

		APV-12/16	APC-12/16	APV-25/35	APC-25/35	
OUTPUT OUTPUT						
AC input voltage ra	nge	90~264VAC; 127~370)VDC			
APC/V-12: Cold start, 70A at 230VAC AC inrush current (max.) APC-16: Cold start, 45A at 230VAC APV-16: Cold start, 50A at 230VAC		Cold start, 45A at 230VAC				
Overload Range >105% rated output current						
protection (APV only)	Type	Hiccup up mode, auto-	recovery			
Over voltage protec	tion	110%~145% rated outp	out voltage			
Withstand voltage		I/P-O/P: 3.75kVAC		I/P-O/P: 3kVAC		
Working temperatu	re	-30∼+70°C (refer to ou	tput derating curve)			
Vibration		10~500Hz, 2G 10 min	utes /1 cycle, period for	60 minutes each along X, Y	, Z axes	
Safety standards		UL8750, ENEC EN6134 IEC61347-1/2-13 appro IEC60950-1				
EMC standards		•	EN55015, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		1-3-2 class A, EN61000-3-3,	
Connection	Input	UL rated, 18AWGx2C (1	5cm)	UL rated, 18AWGx2C (15cm)		
Connection		UL rated, 20AWGx2C (1	UL rated, 20AWGx2C (15cm) UL rated, 18AWGx2C (15cm))	
Dimension (LxWxH)	(mm)	77x 40x 29		84x 57x 29.5		

APV-12 Series (C.V. mode)

AL CBCE

3) su **LP**s

Model No.	Output	Tol.	R&N	Effi.
APV-12-5	5V, 0~2A	±5%	100mV	76%
APV-12-12	12V, 0~1A	±5%	120mV	82%
APV-12-15	15V, 0~0.8A	±5%	120mV	82%
APV-12-24	24V, 0~0.5A	±5%	150mV	84%

APV-16 Series (C.V. mode)

ti v 10 berieb (e.v. mode)			c 1 1 1 1 2 7	
Model No.	Output	Tol.	R&N	Effi.
APV-16-5	5V, 0~2.6A	±5%	100mV	76%
APV-16-12	12V, 0~1.25A	±5%	120mV	80%
APV-16-15	15V, 0~1.00A	±5%	120mV	81%
APV-16-24	24V 0~0 67A	+5%	150mV	83%

APV-25 Series (C.V. mode)

Model No.	Output	Tol.	R&N	Effi.
APV-25-5	5V, 0~3.5A	±5%	120mV	75.5%
APV-25-12	12V, 0~2.1A	±5%	150mV	82.0%
APV-25-15	15V, 0~1.68A	±5%	150mV	83.0%
APV-25-24	24V, 0~1.05A	±5%	150mV	83.0%
APV-25-36	36V, 0~0.7A	±5%	150mV	84.0%
APV-35 Seri	c ¶ us € €			

APV-35 Series (C.V. mode)

Model No.	Output	Tol.	R&N	Effi.
APV-35-5	5V, 0~5A	±5%	120mV	76.5%
APV-35-12	12V, 0~3A	±5%	150mV	83.0%
APV-35-15	15V, 0~2.4A	±5%	150mV	84.0%
APV-35-24	24V, 0~1.5A	±5%	180mV	84.0%
APV-35-36	36V, 0~1.0A	±5%	180mV	85.0%

c¶us **CBC** APC-12 Series (C.C. mode)

Model No.	Output	Io Tol.	R&N	Effi.
APC-12-350	9~36V, 350mA	±8%	300mV	82%
APC-12-700	9~18V, 700mA	±8%	250mV	80%

.₹1∪s C €

1 (for 500mA) **2 1 1 US** (for 700 & 1050mA) **C E**

9 (for 700mA) **6 9 118** (for 1050mA) **C E**

APC-16 Series (C.C. mode)

Model No.	Output	Io Tol.	R&N	Effi.
APC-16-350	12~48V, 350mA	±8%	300mV	84%
APC-16-700	9~24V, 700mA	±8%	250mV	83%

APC-25 Series (C.C. mode)

	(*		
Model No.	Output	Io Tol.	R&N	Effi.
APC-25-350	25~70V, 350mA	±8%	300mV	83%
APC-25-500	15~50V, 500mA	±8%	300mV	83%
APC-25-700	11~36V, 700mA	±8%	300mV	83%
APC-25-1050	9~24V, 1050mA	±8%	300mV	83%

APC-35 Series (C.C. mode)

the Color of the Color mode,		(101 /	(01 10301111)
Model No.	Output	Io Tol.	R&N	Effi.
APC-35-350	28~100V, 350mA	±8%	350mV	84%
APC-35-500	25~70V, 500mA	±8%	350mV	84%
APC-35-700	15~50V, 700mA	±8%	350mV	84%
APC-35-1050	11~33V, 1050mA	±8%	350mV	84%



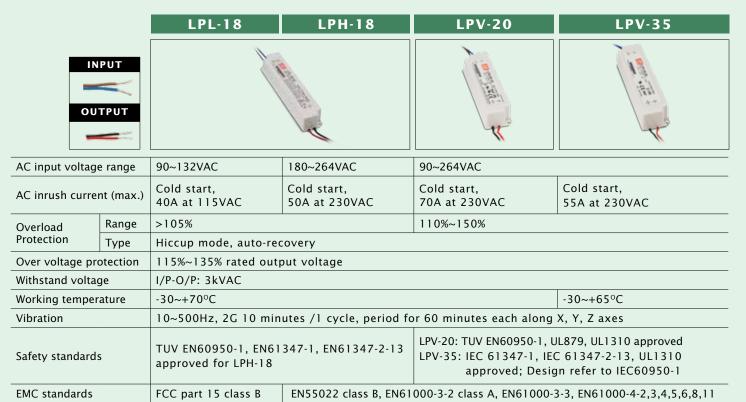
▶ Features

· LPL-18: 90~132VAC input only LPH-18: 180~264VAC input only

LPV: 90~264VAC input

- · Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage / Over temperature (LPH-18/LPL-18 only)
- · Constant voltage mode
- · Class 2 power unit / Pass LPS

- · Isolation class II, no F.G.
- Withstand 300VAC surge input for 5 seconds (LPV-20/35)
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- · Suitable for LED-based decorative/architectural lighting, LED stage and theater lighting, and LED electronic displays
- · 2 years warranty



LPL-18 Series (C.V. mode)

Dimension (LxWxH)(mm)

Connection

Input

Output



	(C.V. mode)		1 '	C (LAD)
Model No.	Output	Tol.	R&N	Effi.
LPL-18-12	12V, 0~1.5A	±3%	120mV	80%
LPL-18-24	24V, 0~0.75A	±3%	150mV	83%
LPL-18-36	36V, 0~0.5A	±3%	200mV	84%

140x 30x 22

UL rated, 18AWGx2C (30cm)

FC (F(LVD) LPV-20 Series (C.V. mode)

118x 35x 26

UI rated.

18AWGx2C (60cm)

			1 200000	05 -
Model No.	Output	Tol.	R&N	Effi.
LPV-20-5	5V, 0~3A	±5%	80mV	77%
LPV-20-12	12V, 0~1.67A	±5%	120mV	81%
LPV-20-15	15V, 0~1.33A	±5%	120mV	83%
LPV-20-24	24V, 0~0.84A	±5%	150mV	83%

UL rated, 18AWGx2C (60cm)

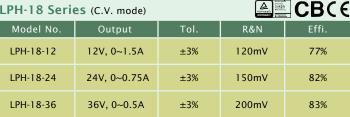
UL rated, 16AWGx2C (60cm)

Indiana Indian

AL CBCE

148x 40x 30

LPH-18 Series (C.V. mode)



LPV-35 Series (C.V. mode)

Model No.	Output	Tol.	R&N	Effi.
LPV-35-5	5V, 0~5A (peak 6A)	±6%	80mV	77%
LPV-35-12	12V, 0~3A	±5%	120mV	84%
LPV-35-15	15V, 0~2.4A	±5%	120mV	84%
LPV-35-24	24V, 0~1.5A	±5%	150mV	85%
LPV-35-36	36V, 0~1A	±5%	150mV	85%



▶ Features

- · LPV-60/100: 90~264VAC input LPV-150: 180~305VAC input only
- · Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage / Over temperature (LPV-150 only)
- · Constant voltage mode
- Class 2 power unit / Pass LPS (LPV-60 only)
- · Isolation class II, no F.G.

- Withstand 300VAC surge input for 5 seconds (LPV-60/100)
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- · Suitable for LED-based decorative/architectural lighting, LED stage and theater lighting, and LED electronic displays
- · 2 years warranty

		LPV-60	LPV-100	LPV-150		
INPUT LPV-60/100 LPV-150 OUTPUT LPV-60/100 LPV-150		The state of the s	Land Barrier B	NEW		
AC input voltage	e range	90~264VAC; 127~370VDC		180~305VAC; 254~431VDC		
AC inrush curre	nt (max.)	Cold start, 60A at 230VAC	Cold start, 75A at 230VAC	Cold start, 60A at 230VAC		
Overload protec	tion	110%~150% hiccup mode, auto-recovery				
Over voltage pro	otection	115%~135% rated output voltage				
Withstand voltag	ge	I/P-O/P: 3kVAC				
Working temper	ature	-30~+70°C	-25~+70°C	-25~+65°C		
Vibration		10~500Hz, 2G 10 minutes /1 cy	10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes			
Safety standards		UL879 (except for LPV-60-5), UL1310 (except for LPV-60-5) approved	UL879, UL8750 approved; Design refer to IEC60950-1			
EMC standards		EN55022 class B, EN61000-3-2 c	lass A, EN61000-3-3, EN61000-4-2	,3,4,5,6,8,11		
Connection	Input	UL rated, 18AWGx2C (60cm)	UL rated, 18AWGx2C (30cm)	UL rated, SJTW 18AWGx2C (30cm)		
Connection	Output	UL rated, 16AWGx2C (60cm)	UL rated, 14AWGx2C (30cm)	UL rated, SJTW 14AWGx2C (30cm)		
Dimension (LxWxH)(mm)		162.5x 42.5x 32	190x 52x 37	191x 63x 37.5		

% (for 48V only) **c %** us (for 12~36V) **C E** LPV-60 Series (C.V. mode)

Model No.	Output	Tol.	R&N	Effi.
LPV-60-5	5V, 0~8A	±8%	80mV	76%
LPV-60-12	12V, 0~5A	±5%	120mV	83%
LPV-60-15	15V, 0~4A	±5%	120mV	83%
LPV-60-24	24V, 0~2.5A	±5%	150mV	86%
LPV-60-36	36V, 0~1.67A	±5%	150mV	86%
LPV-60-48	48V, 0~1.25A	±5%	150mV	86%

LPV-1	00 Se	eries (C.V. mode)
-------	-------	---------	------------

LPV-100 Ser	. ₹1 0 us C €			
Model No.	Output	Tol.	R&N	Effi.
LPV-100-5	5V, 0~12A	±8%	80mV	80%
LPV-100-12	12V, 0~8.5A	±5%	120mV	85%
LPV-100-15	15V, 0~6.7A	±5%	120mV	87%

Model No.	Output	Tol.	R&N	Effi.
LPV-100-24	24V, 0~4.2A	±5%	150mV	88%
LPV-100-36	36V, 0~2.8A	±5%	150mV	88%
LPV-100-48	48V, 0~2.1A	±5%	150mV	89%

IPV-150 Series (C V mode)

LFV-130 Selles (C.v. mode)				c 7 Laus C C
Model No.	Output	Tol.	R&N	Effi.
LPV-150-12	12V, 0~10A	±5%	200mV	87%
LPV-150-15	15V, 0~10A	±5%	200mV	88%
LPV-150-24	24V, 0~6.3A	±5%	200mV	89%
LPV-150-36	36V, 0~4.2A	±5%	200mV	89%
LPV-150-48	48V, 0~3.2A	±5%	200mV	90%



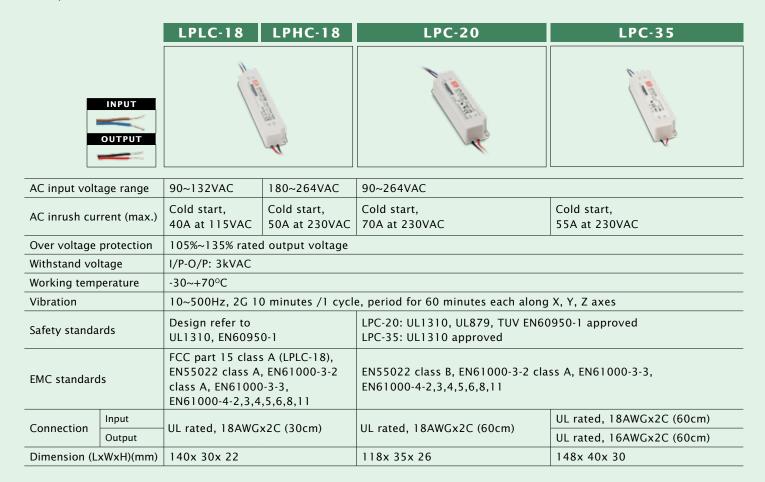
Features

 LPLC-18: 90~132VAC input only LPHC-18: 180~264VAC input only LPC-20/35: 90~264VAC input

- · Fully encapsulated with IP67 level
 - Over temperature (except for LPC-20/35)
- · Constant current mode
- Withstand 300VAC surge input for 5 seconds (only for LPC-20/35)

Protections: Short circuit / Over voltage /

- · Class 2 power unit / Pass LPS
- · Isolation class II, no F.G.
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- Suitable for LED-based decorative / architectural lighting,
 LED stage and theater lighting, and LED electronic displays
- · 2 years warranty



LPLC-18 Series (C.C. mode)

FC(E(LVD)

CE

Model No.	Output	Io Tol.	R&N	Effi.
LPLC-18-350	6~48V, 350mA	±8%	300mV	82%
LPLC-18-700	6~25V, 700mA	±8%	250mV	80%

LPHC-18 Series (C.C. mode)

Model No.	Output	Io Tol.	R&N	Effi.
LPHC-18-350	6~48V, 350mA	±8%	300mV	80%
LPHC-18-700	6~25V, 700mA	±8%	250mV	80%

LPC-20 Series (C.C. mode)

LPC-20 Series (C.C. mode)				
Model No.	Output	Io Tol.	R&N	Effi.
LPC-20-350	9~48V, 350mA	±5%	200mV	83%
LPC-20-700	9~30V, 700mA	±5%	200mV	83%

		711 (for 700mA)	c 911 us (for 1050)	mA & 1400mA)	(
	Model No.	Output	Io Tol.	R&N	Effi.	

Model No.	Output	Io Tol.	R&N	Effi.
LPC-35-700	9~48V, 700mA	±5%	200mV	85%
LPC-35-1050	9~30V, 1050mA	±5%	200mV	85%
LPC-35-1400	9~24V, 1400mA	±5%	200mV	85%

Features

- · LPC-60/100: 90~264VAC input LPC-150: 180~305VAC input only
- · High efficiency up to 90%
- · Fully encapsulated with IP67 level
- Protections: Short circuit / Over voltage / Over temperature (LPC-150 only)
- · Constant current mode

- · Isolation class II, no F.G.
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- · Suitable for LED-based decorative / architectural lighting, LED stage and theater lighting, and LED electronic displays
- · 2 years warranty

		LPC-60	LPC-100	LPC-150	
INPUT		A MARKET AND A STATE OF THE PARKET AND A STA	Den el presentation de la constantion de la cons	NEW	
AC input voltage range		90~264VAC; 127~370VDC	180~305VAC; 254~431VDC		
AC inrush current (max.)		Cold start, 60A at 230VAC	Cold start, 65A at 230VAC	Cold start, 40A at 230VAC	
Over voltage protection		105%~135%	110%~135%		
Withstand vo	ltage	I/P-O/P: 3kVAC			
Working temp	perature	-30~+70°C	-25~+50°C	-40~+70°C	
Vibration		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
Safety standa	rds	UL1310 approved	Design refer to IEC60950-1	EN60950-1 (LVD) approved	
EMC standards		EN55022 class B, EN61000-3-2 c	3,4,5,6,8,11		
Comments	Input	UL rated, 18AWG x2C (60cm)	UL rated, 18AWG x2C (30cm)	UL rated, SJTW 18AWGx2C(30cm)	
Connection	Output	UL rated, 16AWG x2C (60cm)	UL rated, 18AWG x2C (30cm)	UL rated, SJTW 18AWG x2C(30cm)	
Dimension (L	xWxH)(mm)	162.5x 42.5x 32	190x 52x 37	191x 63x 37.5	

LPC-60 Series (C.C. mode)

Model No.	Output	Io Tol.	R&N	Effi.
LPC-60-1050	9~48V, 1050mA	±5%	200mV	87%
LPC-60-1400	9~42V, 1400mA	±5%	200mV	85%
LPC-60-1750	9~34V, 1750mA	±5%	200mV	87%

LPC-100 Series (C.C. mode)

.PC-100 Series (C.C. mode) CE pending					
Model No.	Output	Io Tol.	R&N	Effi.	
LPC-100-350	143~286V, 350mA	±5%	1.5V	90%	
LPC-100-500	100~200V, 500mA	±5%	1.5V	90%	
LPC-100-700	72~143V, 700mA	±5%	1.0V	90%	
LPC-100-1050	48~96V, 1050mA	±5%	1.0V	90%	
LPC-100-1400	36~72V, 1400mA	±5%	1.0V	89.5%	
LPC-100-1750	29~58V, 1750mA	±5%	1.0V	89.5%	
LPC-100-2100	24~48V, 2100mA	±5%	1.0V	89%	

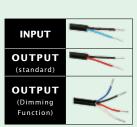
LPC-150 Series (C C mode)

LPC-150 Series (C.C. mode)					
Model No.	Output	Io Tol.	R&N	Effi.	
LPC-150-350	215~430V, 350mA	±5%	2.0V	90%	
LPC-150-500	150~300V, 500mA	±5%	1.5V	90%	
LPC-150-700	107~215V, 700mA	±5%	1.0V	90%	
LPC-150-1050	74~148V, 1050mA	±5%	1.0V	90%	
LPC-150-1400	54~108V, 1400mA	±5%	1.0V	90%	
LPC-150-1750	43~86V, 1750mA	±5%	1.0V	90%	
LPC-150-2100	36~72V, 2100mA	±5%	1.0V	90%	
LPC-150-2450	31~62V, 2450mA	±5%	1.0V	90%	
LPC-150-2800	27~54V, 2800mA	±5%	1.0V	90%	
LPC-150-3150	24~48V, 3150mA	±5%	1.0V	90%	

- Nerties 30~60W Single Output LED Power Supply

▶ Features

- · Universal AC input / Full range
- · Fully isolated plastic case with IP64 level
- Built-in constant current limiting circuit with adjustable OCP level
- · Protections: Short circuit / Over current / Over voltage
- Optional dimming function: 1.1~10VDC(D type) or PWM (P type) controlled
- · Class 2 power unit / Pass LPS
- · Isolation class II, no F.G.
- · Cooling by free air convection
- · Suitable for economical LED indoor lighting and LED electronic displays
- · 2 years warranty







	00. 2647/46 - 127. 2707/06			
range	90~264VAC ; 127~370VDC			
t (max.)	Cold start, 55A at 230VAC	Cold start, 60A at 230VAC		
ınge	±10% rated output voltage			
nt range	75%~103%			
ection	95%~110% constant current limiting, auto-recovery			
Range	110%~150% rated output voltage			
Type	Shut down o/p voltage, re-power on to recover			
e	I/P-O/P: 3kVAC			
ture	-20~+60°C (refer to output derating curve)			
	10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes			
	UL1310 approved; Design refer to TUV EN60950-1			
	EN55022 class B, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11			
Input	UL rated, SVT 18AWGx2C (32cm)	UL rated, SVT 18AWGx2C (30cm)		
Output	Without dimming: UL rated, SVT 18AWGx2C (32cm) With dimming(optional): UL2464 18AWGx4C (32cm)	Without dimming: UL rated, SVT 18AWGx2C (30cm) With dimming(optional): UL2464 18AWGx4C (30cm)		
H)(mm)	145x 47x 30	181x 61.5x 35		
	0.26kg; 60pcs / 16.6kg	0.4kg ; 24pcs / 11.0kg		
1	nge nt range ection Range Type eture Input Output	t (max.) Cold start, 55A at 230VAC inge ±10% rated output voltage int range 75%~103% fection 95%~110% constant current limiting, auto-recovery Range 110%~150% rated output voltage Type Shut down o/p voltage, re-power on to recover in I/P-O/P: 3kVAC ture -20~+60°C (refer to output derating curve) 10~500Hz, 2G 10 minutes /1 cycle, period for 60 r UL1310 approved; Design refer to TUV EN60950-1 EN55022 class B, EN61000-3-2 class A, EN61000-3 Input UL rated, SVT 18AWGx2C (32cm) Without dimming: UL rated, SVT 18AWGx2C (32cm) With dimming(optional): UL2464 18AWGx4C (32cm) H)(mm) 145x 47x 30		

ELN-30 Series

ELN-30 Seri	es	<i>5</i> 17	(for 48V only) c	us (for 5~27V) (€
Model No.	Output	Tol.	R&N	Effi.
ELN-30-5	5V, 0~5.0A	±5%	80mV	75%
ELN-30-9	9V, 0~3.4A	±5%	100mV	80%
ELN-30-12	12V, 0~2.5A	±5%	120mV	82%
ELN-30-15	15V, 0~2.0A	±5%	120mV	82%
ELN-30-24	24V, 0~1.25A	±5%	150mV	85%
ELN-30-27	27V, 0~1.12A	±5%	150mV	85%
FI N-30-48	48V. 0~0.63A	+5%	250mV	87%

EI	LN	-6	0 S	er	'ies

ELN-60 Serie	es	74	(for 48V only) c	us (for 9~27V) (
Model No.	Output	Tol.	R&N	Effi.
ELN-60-9	9V, 0~5.0A	±5%	120mV	82%
ELN-60-12	12V, 0~5.0A	±5%	120mV	85%
ELN-60-15	15V, 0~4.0A	±5%	150mV	86%
ELN-60-24	24V, 0~2.5A	±5%	150mV	87%
ELN-60-27	27V, 0~2.3A	±5%	200mV	87%
ELN-60-48	48V, 0~1.3A	±5%	250mV	88%

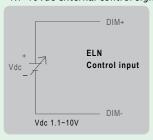
Dimming Control (optional)

Through the dimming function, output current of ELN series can be adjusted to reduce the energy consumption or adjust the brightness of LEDs connecting to it. Two kinds of control signal are accepted: 1.1~10VDC (D-Type option) or PWM signal (P-Type option).

When there is no signal sending to the control wires (open circuit between the two control wires), the power supply will operate as 0V (D-Type) or 0% duty (P-Type) of input signal and the output current will be zero.

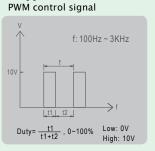
D Type:

1.1~10Vdc external control signal



Order No.: ELN- 30-5D

P Type:



Order No.: ELN- 30-5P

GSC series 18~40W External Power with PFC

▶ Features

- · Universal AC input (up to 277VAC) / Full range
- Built-in active PFC function
- · Protection: Short circuit
- · Fully isolated plastic case
- · Constant current mode
- No load power consumption < 0.15W
- · IP30 design

- · Isolation class II, no F.G.
- · Cooling by free air convection
- · 2 pole EURO plug or IEC320-C8
- · Low cost, high reliability
- Suitable for indoor LED lighting applications
- · 3 years warranty

GSC18B/25B/40B GSC18E/25E/40E OUTPUT OUTPUT

AC input voltage range		inge	90~277VAC		
AC inrush	current (max.)	Cold start, 15A at 230VAC		
Setup time			500ms at full load and 230VAC		
Short circu	it protec	tion	Hiccup mode, auto-recovery		
Withstand	voltage		/P-O/P: 3.75kVAC		
Working temperature		re	-30~+50°C (refer to output derating curve)		
Safety standards			Design refer to ENEC EN61347-1, EN61347-2-13, EN62384		
EMC standa	EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
		B-Type	IEC320-C8		
6	Input	E-Type	European 2P		
Connection	0	Plug	$2.1\phi \times 5.5\phi \times 11$ mm, center+		
	Output	Cable	UL rated, UL1185 18AWG (180cm)		
Dimension	(LxWxH)(mm)	79x54x33		

GSC18 Series

ENEC/CB/CE pending

Model No.	Output	Io Tol.	R&N	Effi.
GSC18□-350	26~52V, 350mA	±8%	4.6V	88%
GSC18□-500	18~36V, 500mA	±8%	3.0V	87%
GSC18□-700	13~26V, 700mA	±8%	2.5V	86%
GSC18□-1050	8~17V, 1050mA	±8%	1.5V	85%
GSC18□-1400	6~13V, 1400mA	±8%	1.0V	84%

 \square = B / E; B: IEC320-C8, E: European 2P

GSC25 Series

ENEC/CB/CE pending

		,,	P 5	
Model No.	Output	Io Tol.	R&N	Effi.
GSC25□-350	36~72V, 350mA	±8%	7.2V	88%
GSC25□-500	26~52V, 500mA	±8%	5.0V	87%
GSC25□-700	18~36V, 700mA	±8%	3.6V	86%

Model No.	Output	Io Tol.	R&N	Effi.
GSC25□-1050	12~24V, 1050mA	±8%	2.4V	85%
GSC25□-1400	9~18V, 1400mA	±8%	1.8V	84%

 \square = B / E; B: IEC320-C8, E: European 2P

GSC40 Series



d3C40 Selle	ENEC/CB/CE pending			
Model No.	Output	Io Tol.	R&N	Effi.
GSC40□-350	50~100V, 350mA	±8%	11.6V	88%
GSC40□-500	40~80V, 500mA	±8%	8.0V	87%
GSC40□-700	29~58V, 700mA	±8%	5.8V	86%
GSC40□-1050	19~38V, 1050mA	±8%	3.8V	85%
GSC40□-1400	14~28V, 1400mA	±8%	2.9V	84%

 \square = B / E; B: IEC320-C8, E: European 2P

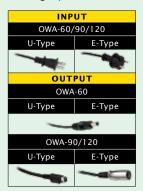
OWA series

60~120W External Power

▶ Features

- · Universal AC input / Full range
- Built-in active PFC function (OWA-90/120)
- High efficiency up to 91%
- No load power consumption < 0.15W
- · NRCan (Level V) / EISA 2007 (Level VI) for U-Type
- ErP step 2 (Level V) for E-Type
- Protections: Short circuit / Over current / Over voltage / Over temp.
- · Cooling by free air convection

- · Fully isolated plastic case
- Fully encapsulated with IP67 level for main body
- · Isolation class II, no F.G.
- · Class 2 power unit (OWA-60 & OWA-90-20~54)
- · Suitable for dry and damp location
- · Suitable for LED lighting applications
- · Optional IP44 AC plug for E-Type
- 5 years warranty









AC input vol	tage rar	nge	90~264VAC; 127~370VDC			
AC inrush cu	rrent (n	nax.)	Cold start, 55A at 230VAC	Cold start, 60A at 230VAC		
Over current	protect	tion	95%~108% constant current limiting, auto-recovery			
Over voltage	protec	tion	110%~140% rated output voltage		_	
Over temp. p	rotecti	on	Shut down output voltage, re-pov	wer on to recover		
Setup, rise, h	old up	time	500ms, 80ms, 16ms at full load a	and 230VAC		
Withstand vo	ltage		I/P-O/P: 3.75KVAC			
Working tem	peratur	e	-40~+70°C (refer to output derat	ing curve)		
Safety standa	arde		U-Type: UL8750 listed approved (OWA-60/120 pending)			
Safety Standa	arus		E-Type: EN61558-1, EN61558-2-16 listed; EN60335-1 listed (except for OWA-90E-42~54) approved (OWA-60/120 pending)			
EMC standar	ds		U-Type: FCC Part 15; E-Type: EN55022 class B, EN55014-1, EN61000-3-2,-3 (OWA-60/120 pending)			
	Input	Plug	U-Type: NEMA 1-15P plug; E-Type	e: Schuko EU plug		
	IIIput	Cable	U-Type: UL rated, SVT 18AWGx2C (150cm); E-Type: H05RN-F 1.0mm ² x2C (150cm)			
Connection		Plug	2.1φ x 5.5φ x 11mm / C+	U-Type: Power DIN 4P with lock t	type; E-Type: XLR 4P, male type	
	Output	Cable	U-Type: UL1185 16AWG x 2C (30cm);	U-Type: UL2464 18AWGx4C (30cm);	U-Type: UL2464 18AWGx4C (30cm);	
		Cable	E-Type: H05RN-F 1.0mm ² x 2C (30cm)	E-Type: H05RN-F 1.0mm ² x ² C (30cm)	E-Type: H07RN-F 1.5mm ² x2C (30cm)	
Dimension (L	xWxH)	(mm)	130× 53× 35	171× 63× 37.5	191× 63× 37.5	

OWA-60 Series

UL/CUL/TUV/FCC/CE pending

Model No.	Output	Tol.	R&N	Effi.
OWA-60 -12	12V, 0~5A	±4.0%	150mV	89%
OWA-60 -15	15V, 0~4A	±4.0%	150mV	90%
OWA-60 20	20V, 0~3A	±4.0%	150mV	90%
OWA-60 -24	24V, 0~2.5A	±3.0%	150mV	90%
OWA-60 -30	30V, 0~2A	±3.0%	200mV	90%
OWA-60 -36	36V, 0~1.67A	±2.0%	200mV	91%
OWA-60 -42	42V, 0~1.43A	±1.0%	250mV	91%
OWA-60 -48	48V, 0~1.25A	±1.0%	250mV	91%
OWA-6054	54V, 0~1.12A	±1.0%	350mV	91%

= U / E; U: American 2P, E: European 2P

OWA-90 Series

?	(i	D	ι (ŲL	.)us	<u>≜</u> €	F©	ϵ
0.15	Type	42~54\/\)	(II-Type	12~36\/\)	(F-Type)	(II-Type)	(F-Type

011/1 30 301	(0-19	pe, 42~54v) (U-1yp	e, 12~36V) (E-Type	(U-Type) (E-Type)
Model No.	Output	Tol.	R&N	Effi.
OWA-9012	12V, 0~7.5A	±4.0%	150mV	89%
OWA-90 -15	15V, 0~6A	±4.0%	150mV	90%
OWA-90 20	20V, 0~4.5A	±4.0%	150mV	90%
OWA-9024	24V, 0~3.75A	±3.0%	150mV	90%

Model No.	Output	Tol.	R&N	Effi.
OWA-90 30	30V, 0~3A	±3.0%	200mV	90%
OWA-9036	36V, 0~2.5A	±2.0%	200mV	91%
OWA-9042	42V, 0~2.15A	±1.0%	250mV	91%
OWA-9048	48V, 0~1.88A	±1.0%	250mV	91%
OWA-9054	54V, 0~1.67A	±1.0%	350mV	91%

= U / E; U: American 2P, E: European 2P

OWA-120 Series



Model No.	Output	Tol.	R&N	Effi.
OWA-12012	12V, 0~10A	±4.0%	150mV	89%
OWA-12015	15V, 0~8A	±4.0%	150mV	89%
OWA-12020	20V, 0~6A	±4.0%	150mV	89%
OWA-12024	24V, 0~5A	±4.0%	150mV	90%
OWA-12030	30V, 0~4A	±3.0%	200mV	90%
OWA-12036	36V, 0~3.4A	±2.0%	200mV	90%
OWA-12042	42V, 0~2.9A	±1.0%	200mV	90%
OWA-12048	48V, 0~2.5A	±1.0%	250mV	91%
OWA-12054	54V, 0~2.3A	±1.0%	350mV	91%

 \square = U / E; U: American 2P, E: European 2P

series 16~60W Constant Current with AC Dimmable

Features

- ·AC phase-cut dimming, work with leading edge and trailing edge TRIAC dimmers
- •PCD-16/25: 115VAC or 230VAC input PCD-40/60: 230VAC input only
- · Built-in active PFC function

100/

- · Fully isolated plastic case
- · Constant current mode

- · IP30 design
- ·Class 2 power unit / Pass LPS (PCD-16/25)
- · Isolation class II, no F.G.
- · Protections: Short circuit / Over temperature
- Cooling by free air convection
- · 3 years warranty

PCD-16/25 PCD-40/60 (A type) OUTPUT (B type) 230VAC (180~295VAC) AC input voltage range 115VAC (90~135VAC) or 230VAC (180~295VAC) PCD-40: Cold start, 11A at 230VAC AC inrush current (max.) Cold start, 10A at 230VAC PCD-60: Cold start, 13A at 230VAC Setup time 500ms at full load and 230VAC I/P - O/P: 3.75kVAC Withstand voltage Working temperature -30~+60°C (refer to output derating curve) PCD-40: -30~+50°C; PCD-60: -30~+45°C UL8750 (PCD-16/25 only), ENEC EN61347-1, EN61347-2-13, EN62384 (B-Type only) approved Safety standards A-Type: FCC part 18 non-consumer equipment **EMC** standards B-Type: EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547 PCD-16/25 A-Type: UL1430 18AWGx2C (7.5cm); PCD-16/25 B-Type: NISPT-1 18AWGx2C (7.5cm); Input PCD-40/60: H03VVH2-F 0.75mm² x2C (7.5cm) Connection UL1430 18AWGx2C (15cm) Output Dimension (LxWxH)(mm) 84x 57x 29.5 128x 60x 31.5

® 51 51 € CB(€ PCD-16 Series

			** *	
Model No.	Output	Io Tol.	R&N	Effi.
PCD-16-350 🗌	24~48V, 350mA	±5%	4.6V	82.0%
PCD-16-700 🗌	16~24V, 700mA	±5%	2.7V	81.0%
PCD-16-1050 🗌	12~16V, 1050mA	±5%	2.2V	80.5%
PCD-16-1400 🗌	8~12V, 1400mA	±5%	2.0V	80.0%

 \square =A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

® SL SL ST F©CBCE

PCD-25 Series	(for 350/700mA) (for 1050/1400r	nA) (B Type) (A	Type)	(B Type)
Model No.	Output	Io Tol.	R&N	Effi.
PCD-25-350 🗌	40~58V, 350mA	±5%	4.6V	82.0%
PCD-25-700 🗌	24~36V, 700mA	±5%	2.7V	81.0%
PCD-25-1050 🗌	16~24V, 1050mA	±5%	2.2V	80.5%
PCD-25-1400 🗌	12~18V, 1400mA	±5%	2.0V	80.0%

 \square =A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

PCD-40 Series			EXT C	BCE
Model No.	Output	Io Tol.	R&N	Effi.
PCD-40-350B	70~108V, 350mA	±5%	9.5V	87%
PCD-40-500B	45~80V, 500mA	±5%	5.0V	87%
PCD-40-700B	34~57V, 700mA	±5%	3.1V	86%
PCD-40-1050B	22~38V, 1050mA	±5%	2.6V	86%
PCD-40-1400B	17~29V, 1400mA	±5%	2.5V	85%
PCD-40-1750B	13~23V, 1750mA	±5%	2.4V	85%

PCD-60 Series



> Dimmer Compatibility Chart

Manufacturer	Dimmer Model			
LUTRON	SKYLARK SF-12P-277	(277VAC / 60Hz)		
LUTRON	DVF-103P-277	(277VAC / 60Hz)		
LUTRON	SKYLARK SF-10P	(120VAC / 60Hz)		
LUTRON	SKYLARK S-600P	(120VAC / 60Hz)		
LUTRON	SKYLARK DVF-103P	(120VAC / 60Hz)		
LEVITON	ILLUMATECH TM Cat.No.IP106	(120VAC / 60Hz)		
LEVITON	SURESLIDE TM Cat.No.6633-P	(120VAC / 60Hz)		
LEVITON	SURESLIDE TM Cat. NO.6615-P	(120VAC / 60Hz)		
JUNG	Licht-Management 225 T DE	(230VAC / 50Hz)		
JUNG	Licht-Management 225 NV DE	(230VAC / 50Hz)		
BERKER	Tronic-Drehdimmer 286710	(230-240VAC / 50Hz)		
BE LICHTREGLER	T39.01	(230VAC / 50Hz)		
BE LICHTREGLER	T46	(230VAC / 50Hz)		
CLIPSAL	32E450UDM	(220-240VAC / 50Hz)		
CLIPSAL	NO 32E450TM	(220-240VAC / 50Hz)		
► Conduction angle: 30 degrees (min.) / 180 degrees (max.)				

- ► For PCD-16/25/40/60 only

series

16~60W Constant Current with PFC

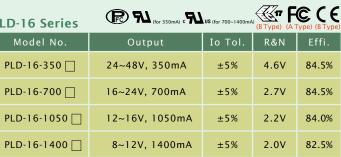
▶ Features

- •PLD-16: 115VAC or 230VAC input
- PLD-25: 90~295VAC input PLD-40/60: 230VAC input only
- ·Built-in active PFC function
- · Fully isolated plastic case
- · Constant current mode
- · IP30 design

- ·Class 2 power unit / Pass LPS (PLD-16/25)
- · Isolation class II, no F.G.
- · Protections: Short circuit / Over temperature
- · Suitable for indoor LED lighting applications
- ·Cooling by free air convection
- · 3 years warranty

		PLD-16	PLD-25	PLD-40	PLD-60
A-Type B-Ty OUTI	pe PLD-25				THE REAL PROPERTY OF THE PARTY
AC input volt	tage range	115VAC (90~135VAC) or 230VAC (180~295VAC)	90~295VAC 230VAC (180~295VAC)		
AC inrush cu	rrent (max.)	Cold start, 20A at 230VAC	Cold start, 25A at 230VAC		
Setup time		500ms at full load and 230VAC			
Withstand vo	ltage	I/P - O/P: 3.75kVAC			
Short circuit	protection	Hiccup mode, auto-recove	ery		
Over temp. p	rotection	Shut down o/p voltage, re	e-power on to recover	Shut down o/p voltage, a	uto-recovery
Working tem	perature	-30~+50°C	-30~+60°C	-30~+50°C	-30~+45°C
Safety standa	ards	UL8750 (PLD-16/25 only)	, ENEC EN61347-1, EN613	47-2-13, EN62384 (except	for A-Type) approved
EMC standard	A-Type & PLD-25: FCC part 18 non-consumer equipment B-Type & PLD-25: EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4,2,3,4,5,6,8,11, EN6			3,4,5,6,8,11, EN61547	
Connection	Input	PLD-16 A-Type: UL1430 18AWGx2C (7.5cm) PLD-16 B-Type & PLD-25: NISPT-1 18AWGx2C (7.5cm) PLD-40/60: H03VVH2-F 0.75mm² x2C (7.5cm)			
	Output	UL1430 18AWGx2C (15cm)			
Dimension (L	xWxH)(mm)	84x 57x 29.5		128x 60x 31.5	

PLD-16 Series



PLD-40 Series		P	₹ 7 C	BCE
Model No.	Output	Io Tol.	R&N	Effi.
PLD-40-350B	70~108V, 350mA	±5%	9.5V	88%
PLD-40-500B	45~80V, 500mA	±5%	5.0V	88%
PLD-40-700B	34~57V, 700mA	±5%	3.1V	87%
PLD-40-1050B	22~38V, 1050mA	±5%	2.6V	87%
PLD-40-1400B	17~29V, 1400mA	±5%	2.5V	86%
PLD-40-1750B	13~23V, 1750mA	±5%	2.4V	86%

\square =A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

PLD-25 Series	(for 350/700mA) c	US (for 1050/1400	(mA) 17	EC (
Model No.	Output	Io Tol.	R&N	Effi.
PLD-25-350	36~58V, 350mA	±5%	4.6V	85%
PLD-25-700	24~36V, 700mA	±5%	2.7V	86%
PLD-25-1050	16~24V, 1050mA	±5%	2.2V	85%
PLD-25-1400	12~18V, 1400mA	±5%	2.0V	84%

PLD-60 Series

PLD-60 Series		R	₹ rC	BCE
Model No.	Output	Io Tol.	R&N	Effi.
PLD-60-500B	70~108V, 500mA	±5%	10.2V	88%
PLD-60-700B	50~86V, 700mA	±5%	5.6V	87%
PLD-60-1050B	34~57V, 1050mA	±5%	3.8V	87%
PLD-60-1400B	25~43V, 1400mA	±5%	3.4V	86%
PLD-60-1750B	20~34V, 1750mA	±5%	3.3V	86%
PLD-60-2000B	18~30V, 2000mA	±5%	2.4V	86%
PLD-60-2400B	15~25V, 2400mA	±5%	2.4V	85%



▶ Features

- 110~295VAC input
- Built-in active PFC function
- Protections: Short circuit / Over temperature (PLM-40)
- · Fully isolated plastic case
- · Constant current mode
- No load power consumption <0.5W
- Three-step analog dimming function (PLM-40)

- · IP30 design
- · Isolation class II, no F.G.
- · Class 2 power unit (except for PLM-25-350 & PLM-40)
- · Cooling by free air convection
- · Low cost, high reliability
- \cdot Suitable for indoor LED lighting applications
- · 2 years warranty

	PLM-12	PLM-25	PLM-40		
INPUT OUTPUT					
AC input voltage range	110~295VAC; 156~417VDC	:			
AC inrush current (max.)	Cold start, 15A at 230VAC				
Setup time	500ms at full load and 230	VAC			
Short circuit protection	Hiccup mode, auto-recovery	/			
Over temperature (PLM-40)	Hiccup mode, auto-recovery	/			
Withstand voltage	I/P-O/P: 3.75kVAC				
Working temperature	-30~+50°C	-30~+45°C (refer to output	derating curve)		
Safety standards	UL8750, ENEC EN61347-1, I	EN61347-2-13, EN62384 app	proved		
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547				
Connection (Input / Output)	2+2P push terminal block	2+2P push terminal block			
Dimension (LxWxH)(mm)	145x 38x 22 175x 42x 24				

PLM-12 Series



	-		_ , ,	
Model No.	Output	Io Tol.	R&N	Effi.
PLM-12-350	22~36V, 350mA	±5%	3.6V	85%
PLM-12-500	15~24V, 500mA	±5%	2.4V	84%
PLM-12-700	11~18V, 700mA	±5%	2.4V	83%
PLM-12-1050	7~12V, 1050mA	±5%	1.8V	81%

PI M.25 Sarias

PLM-25 Seri	es	E) 'M	ns (18	RCE
Model No.	Output	Io Tol.	R&N	Effi.
PLM-25-350	42~72V, 350mA	±5%	7.2V	87%
PLM-25-500	30~50V, 500mA	±5%	5.0V	86%
PLM-25-700	21~36V, 700mA	±5%	3.6V	86%
PLM-25-1050	14~24V, 1050mA	±5%	2.4V	85%

PLM-40 Series

LM-40 Seri	es '	FC c	ns /374.	
Model No.	Output	Io Tol.	R&N	Effi.
PLM-40-350	53~105V, 350mA	±5%	10V	88%
PLM-40-500	40~80V, 500mA	±5%	8.0V	88%
PLM-40-700	29~57V, 700mA	±5%	6.0V	87%
PLM-40-1050	19~38V, 1050mA	±5%	4.0V	87%
PLM-40-1400	15~29V, 1400mA	±5%	3.0V	86%
PLM-40-1750	12~23V, 1750mA	±5%	2.5V	86%

(P.S.)... CR(f

LPFseries

16~90W Single Output with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Built-in active PFC function
- · Fully isolated plastic case
- · Isolation class II, no F.G.
- · Class 2 power unit

- Built-in 3 in 1 dimming function (1~10VDC, PWM signal or resistance) for D type
- Fully encapsulated with IP67 level [optional for LPF-16(D)]
- · Cooling by free air convection
- · Suitable for LED lighting and moving sign applications
- · Suitable for dry, damp, and wet location
- · 5 years warranty

INPUT OUTPUT (Non-Dimming Models) OUTPUT (Dimming Models) AC input voltage range



LPF-16(D)/25(D)



LPF-40(D)/60(D)



AC input voltage range 90~305VAC ; 127~431VDC				
AC inrush cu	AC inrush current (max.) LPF-16(D): Cold start, 45A LPF-40(D): Cold start, 50A LPF-60(D): Cold start, 55A		Cold start, 55A at 230VAC	
Over current	protection	95% ~108% constant current,	auto-recovery	
Over voltage	protection	110%~150% rated output volta	age	
Setup, rise, h	old up time	500ms, 80ms, 16ms at full load and 230VAC 500ms, 200ms, 16ms at full load and 230VA		
Withstand vo	ltage	age I/P - O/P: 3.75kVAC		
Working tem	/orking temperature -35~+70°C -40~+70°C (refer to output derating curve)			ng curve)
Safety standards UL8750, ENEC EN61347-1, EN61347-2-13, EN62384, PSE J61347-1, J61347-2-13 approx TUV EN61347-1, EN61347-2-13 approved for LPF-40(D)/60(D)/90(D)			••	
EMC standard	ds	EN55015, EN61547, EN61000-	3-2 class C, EN61000-3-3, EN61000-	4-2,3,4,5,6,8,11
	Input	UL rated, SJTW 18AWGx2C (30	cm)	
Connection	Output	LPF-16/25: UL rated, SVT 18AWGx2C (30cm) LPF-16D/25D: UL rated, SJTW 18AWGx4C (30cm)	LPF-40/60: UL rated, SVT 18AWGx2C (30cm) LPF-40D/60D: UL2464 18AWGx2C(30cm)+22AWGx2C (30cm)	LPF-90: UL rated, SVT 18AWGx2C (30cm) LPF-90D: UL2464 18AWGx4C (30cm)
Dimension (L	xWxH)(mm)	148x 40x 32	162.5x 43x 32	161x 61x 36

Difficitation (EXWAIT)(IIIII)			1 707	TUX 32		102.5
LPF-16 Series				R.M .	17 4	CBC
	Model No.	Outpo	ut	Tol.	R&N	Effi.
	LPF-16□-12	12V, 0~1	.34A	±4.0%	150mV	83.0%

Model No.	Output	Tol.	R&N	Effi.
LPF-16□-12	12V, 0~1.34A	±4.0%	150mV	83.0%
LPF-16□-15	15V, 0~1.07A	±4.0%	150mV	83.0%
LPF-16 -20	20V, 0~0.80A	±4.0%	150mV	84.5%
LPF-16 -24	24V, 0~0.67A	±4.0%	150mV	84.5%
LPF-16 <u></u> -30	30V, 0~0.54A	±4.0%	200mV	84.5%
LPF-16□-36	36V, 0~0.45A	±4.0%	250mV	85.0%
LPF-16 <u></u> -42	42V, 0~0.39A	±4.0%	250mV	85.0%
LPF-16 -48	48V, 0~0.34A	±4.0%	250mV	85.0%
LPF-16□-54	54V, 0~0.30A	±4.0%	350mV	84.5%

LPF-16∐-42	42V, 0~0.39A	±4.0%	250mV	85.0%
LPF-16 -48	48V, 0~0.34A	±4.0%	250mV	85.0%
LPF-16 -54	54V, 0~0.30A	±4.0%	350mV	84.5%
LPF-25 Seri	es	R , A	₹ 17 ₹ �	CB (€
Model No.	Output	Tol.	R&N	Effi.
LPF-25□-12	12V, 0~2.10A	±4.0%	150mV	84.0%
LPF-25 -15	15V, 0~1.67A	±4.0%	150mV	84.0%
LPF-25□-20	20V, 0~1.25A	±4.0%	150mV	85.0%
LPF-25 -24	24V, 0~1.05A	±4.0%	150mV	85.5%
LPF-25 -30	30V. 0~0.84A	±4.0%	200mV	85.5%

LPF-25□-12	12V, 0~2.10A	±4.0%	150mV	84.0%
LPF-25 -15	15V, 0~1.67A	±4.0%	150mV	84.0%
LPF-25 -20	20V, 0~1.25A	±4.0%	150mV	85.0%
LPF-25 -24	24V, 0~1.05A	±4.0%	150mV	85.5%
LPF-25 -30	30V, 0~0.84A	±4.0%	200mV	85.5%
LPF-25□-36	36V, 0~0.70A	±4.0%	250mV	85.5%
LPF-25 -42	42V, 0~0.60A	±4.0%	250mV	85.5%
LPF-25 -48	48V, 0~0.53A	±4.0%	250mV	86.0%
LPF-25 -54	54V, 0~0.47A	±4.0%	350mV	86.0%

LPF-40□ Series	(for 48-54V) (for 12-42V)	'≜ £ ©CB(€

Model No.	Output	Tol.	R&N	Effi.
LPF-40 -12	12V, 0~3.34A	±4.0%	150mV	84.0%
LPF-4015	15V, 0~2.67A	±4.0%	150mV	85.0%
LPF-40 -20	20V. 0~2.00A	±4.0%	150mV	86.0%

Output	Tol.	R&N	Effi.
24V, 0~1.67A	±4.0%	150mV	87.0%
30V, 0~1.34A	±4.0%	200mV	88.0%
36V, 0~1.12A	±4.0%	250mV	88.0%
42V, 0~0.96A	±4.0%	250mV	88.5%
48V, 0~0.84A	±4.0%	250mV	89.0%
54V, 0~0.76A	±4.0%	350mV	89.0%
	24V, 0~1.67A 30V, 0~1.34A 36V, 0~1.12A 42V, 0~0.96A 48V, 0~0.84A	24V, 0~1.67A ±4.0% 30V, 0~1.34A ±4.0% 36V, 0~1.12A ±4.0% 42V, 0~0.96A ±4.0% 48V, 0~0.84A ±4.0%	24V, 0~1.67A ±4.0% 150mV 30V, 0~1.34A ±4.0% 200mV 36V, 0~1.12A ±4.0% 250mV 42V, 0~0.96A ±4.0% 250mV 48V, 0~0.84A ±4.0% 250mV

LPF-60 ☐ Seri	ies 🕝 📆	c Tus (for 12~42V)	7 🗐 👤	②CB(€
Model No.	Output	Tol.	R&N	Effi.
LPF-60 -12	12V, 0~5.00A	±4.0%	150mV	86%
LPF-60□-15	15V, 0~4.00A	±4.0%	150mV	87%
LPF-60□-20	20V, 0~3.00A	±4.0%	150mV	88%
LPF-60 -24	24V, 0~2.50A	±4.0%	150mV	89%
LPF-60 -30	30V, 0~2.00A	±4.0%	200mV	90%
LPF-60□-36	36V, 0~1.67A	±4.0%	250mV	90%
LPF-60 -42	42V, 0~1.43A	±4.0%	250mV	90%
LPF-60□-48	48V, 0~1.25A	±4.0%	250mV	90%
LPF-60□-54	54V, 0~1.12A	±4.0%	350mV	90%

	,	,		/-
LPF-90□ Serie	es (for 48–54V)	c Sus (for 15-42V)		©CB(€
Model No.	Output	Tol.	R&N	Effi.
LPF-90 -15	15V, 0~5.00A	±4.0%	150mV	89.0%
LPF-90 -20	20V, 0~4.50A	±4.0%	150mV	89.5%
LPF-90 -24	24V, 0~3.75A	±4.0%	150mV	90.0%
LPF-90 -30	30V, 0~3.00A	±4.0%	200mV	90.5%
LPF-9036	36V, 0~2.50A	±4.0%	200mV	90.5%
LPF-90 -42	42V, 0~2.15A	±4.0%	200mV	90.5%
LPF-90□-48	48V, 0~1.88A	±4.0%	200mV	90.5%
LPF-9054	54V, 0~1.67A	±4.0%	200mV	90.5%
_				

= Blank, D; Blank: without dimming function, D: with dimming function



Features

- Universal AC input (up to 305VAC) / Full range
- · Built-in active PFC function
- · High efficiency up to 91%
- No load power consumption <0.15W (<0.5W for D-Type)
- Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- · Cooling by free air convection

- · Fully isolated plastic case with IP67 level
- · Class 2 power unit [except for NPF-90(D)-12/15 & NPF-120(D)]
- · Isolation class II, no F.G.
- Built-in 3 in 1 dimming function (0~10VDC, PWM signal or resistance) for D type
- · Suitable for dry, damp, and wet location
- 5 years warranty

INPUT **OUTPUT** PF-40/60/90/120





NPF-90(D)



AC input voltage range 90~305VAC; 127~431VDC					
AC inrush cu		Cold start, 50A at 230VAC	Cold start, 50A at 230VAC Cold start, 60A at 230VAC		
Over current	protection	95%~108% constant current limi	ting, auto-recovery		
Over voltage	protection	110%~140% rated output voltag	e		
Over temp. p	rotection	Shut down output voltage, re-po	ower on to recover		
Setup, rise, h	old up time	500ms, 80ms, 16ms at full load	and 230VAC		
Withstand vo	ltage	I/P-O/P: 3.75kVAC			
Working tem	perature	-40~+70°C (refer to output dear	ting curve)		
Safety standa	ards	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved [NPF-40(D)/60(D)/120(D)/pending]; Design refer to EN60335-1			
EMC standard	ds	EN55015, EN61000-3-2 class C, [NPF-40(D)/60(D)/120(D)/pendii	EN61000-3-3, EN61000-4-2,3,4,5 ng]	5,6,8,11, EN61547,	
	Input	UL rated, SJTW 18AWGx2C (30cm)			
Connection	Output	NPF-40/60: SVT 18AWGx 2C (30cm) NPF-40D/60D: UL2464 18AWG x2C (30cm)+ 22AWG x2C (30cm)	NPF-90: SJTW 16AWGx2C (30cm) NPF-90D: SJTW 16AWGx2C (30cm)+ UL2464 18AWGx2C (30cm)	NPF-120: SJTW 14AWGx2C (30cm) NPF-120D: SJTW 14AWGx2C (30cm)+ UL2464 18AWGx2C (30cm)	
Dimension (LxWxH) (mm) 15		150x 53x 35	171x 63x 37.5	191x 63x 37.5	
NPF-40 Seri	es	UL/CUL/ENEC/CB/CE pend	ding NPF-90 Series	®.¶.,«©"CBC	

NPF-40 Series

PUL/CUL/ENEC/CB/CE pending

		_ 0_,00_	,0, 02, 0	_ penang
Model No.	Output	Tol.	R&N	Effi.
NPF-40 -12	12V, 0~3.34A	±4%	150mV	86.0%
NPF-40 -15	15V, 0~2.67A	±4%	150mV	87.0%
NPF-40 -20	20V, 0~2A	±4%	150mV	88.0%
NPF-40 -24	24V, 0~1.67A	±3%	150mV	89.0%
NPF-40 -30	30V, 0~1.34A	±3%	200mV	90.0%
NPF-40□-36	36V, 0~1.12A	±2%	200mV	90.0%
NPF-40 -42	42V, 0~0.96A	±1%	200mV	90.0%
NPF-40 -48	48V, 0~0.84A	±1%	200mV	90.0%
NPF-40 -54	54V, 0~0.76A	±1%	350mV	90.0%

⊥1 %	2 E O m \/	00 00/

NPF-60 Serie	s	UL/CUL	/ENEC/CB/C	E pending
Model No.	Output	Tol.	R&N	Effi.
NPF-6012	12V, 0~5A	±4%	150mV	86.0%
NPF-6015	15V, 0~4A	±4%	150mV	87.0%
NPF-60 -20	20V, 0~3A	±4%	150mV	88.0%
NPF-60 -24	24V, 0~2.5A	±3%	150mV	89.0%
NPF-60 -30	30V, 0~2A	±3%	200mV	90.0%
NPF-6036	36V, 0~1.67A	±2%	200mV	90.0%
NPF-60 -42	42V, 0~1.43A	±1%	200mV	90.0%
NPF-60 -48	48V, 0~1.25A	±1%	200mV	90.0%
NPF-60 -54	54V, 0~1.12A	±1%	350mV	90.0%

NPF-90 Series

MEL-30 Selles		CEFC C	US 1347		
	Model No.	Output	Tol.	R&N	Effi.
	NPF-90 -12	12V, 0~7.5A	±4%	150mV	89.0%
	NPF-90 <u></u> -15	15V, 0~6A	±4%	150mV	89.5%
	NPF-90 <u></u> -20	20V, 0~4.5A	±4%	150mV	90.5%
	NPF-90 -24	24V, 0~3.75A	±3%	150mV	91.0%
	NPF-90 -30	30V, 0~3A	±3%	200mV	89.5%
	NPF-90 <u></u> -36	36V, 0~2.5A	±2%	200mV	90.5%
	NPF-90 -42	42V, 0~2.15A	±1%	250mV	90.5%
	NPF-90 <u></u> -48	48V, 0~1.88A	±1%	250mV	90.5%
	NPF-90 -54	54V, 0~1.67A	±1%	350mV	90.5%
		~	_		

NPF-120 Series

NPF-120 Seri	es (UL/CUL	/ENEC/CB/C	E pending
Model No.	Output	Tol.	R&N	Effi.
NPF-120 12	12V, 0~10A	±4%	150mV	89.0%
NPF-120 15	15V, 0~8A	±4%	150mV	89.0%
NPF-120 20	20V, 0~6A	±4%	150mV	89.0%
NPF-120 -24	24V, 0~5A	±4%	150mV	90.0%
NPF-120 -30	30V, 0~4A	±3%	200mV	90.0%
NPF-120 -36	36V, 0~3.4A	±2%	200mV	90.0%
NPF-120 -42	42V, 0~2.9A	±1%	250mV	90.0%
NPF-120 -48	48V, 0~2.5A	±1%	250mV	91.0%
NPF-120 -54	54V, 0~2.3A	±1%	350mV	91.0%

PVM series 40~120W PWM Output with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- · Constant voltage PWM style output
- · Built-in active PFC function
- · High efficiency up to 91%
- No load power consumption < 0.5W
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection

- · Fully isolated plastic case
- · Fully encapsulated with IP67 level
- Class 2 power unit (except for PWM-90-12 & PWM-120)
- · Isolation class II, no F.G.
- Built-in 2 in 1 dimming function (0~10VDC or PWM signal)
- · Suitable for dry, damp, and wet location
- · Suitable for LED strip lighting
- 5 years warranty

OUTPUT (PWM-40/60) (PWM-90/120)







AC input volt	age range	90~305VAC; 127~431VDC			
AC inrush cu	rrent (max.)	Cold start, 50A at 230VAC	Cold start, 50A at 230VAC Cold start, 60A at 230VAC		
Overload pro	tection	108%~120% hiccup mode, auto-re	covery		
Over voltage	protection	113%~142% rated output voltage			
Over temp. p	rotection	Shut down output voltage, re-pov	ver on to recover		
Setup, rise, h	old up time	500ms, 80ms, 16ms at full load a	and 230VAC		
Withstand vo	ltage	I/P-O/P: 3.75kVAC			
Working tem	perature	-40~+70°C (refer to output dearting curve)			
Safety standa	rds	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved (PWM-40/60/120 pending); Design refer to EN60335-1			
EMC standard	EMC standards EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547 (PWM-40/60/120 pending)			,8,11, EN61547	
	Input	UL rated, SJTW 18AWGx2C (30cm)			
Connection	Output	UL2464 18AWG x2C (30cm)+ 22AWG x2C (30cm)	SJTW 16AWGx2C (30cm)+ UL2464 18AWGx2C (30cm)	SJTW 14AWGx2C (30cm)+ UL2464 18AWGx2C (30cm)	
Dimension (Lx	(WxH) (mm)	150x 53x 35	171x 63x 37.5	191x 63x 37.5	

PWM-40 Series

PUL/CUL/ENEC/CB/CE pending

Model No.	Output	Tol.	Effi.
PWM-40-12	12V, 0~3.34A	±4%	86.0%
PWM-40-24	24V, 0~1.67A	±3%	89.0%
PWM-40-36	36V, 0~1.12A	±2%	90.0%
PWM-40-48	48V, 0~0.84A	±1%	90.0%

PWM-90 Series

I WIM 30 Serie	-3	<u> </u>	, ,
Model No.	Output	Tol.	Effi.
PWM-90-12	12V, 0~7.5A	±4%	88.0%
PWM-90-24	24V, 0~3.75A	±3%	90.5%
PWM-90-36	36V, 0~2.5A	±2%	90.5%
PWM-90-48	48V, 0~1.88A	±1%	90.5%

PWM-60 Series

FUL/CUL/ENEC/CB/CE pending

Model No.	Output	Tol.	Effi.
PWM-60-12	12V, 0~5A	±4%	86.0%
PWM-60-24	24V, 0~2.5A	±3%	89.0%
PWM-60-36	36V, 0~1.67A	±2%	90.0%
PWM-60-48	48V, 0~1.25A	±1%	90.0%

PWM-120 Series

PUL/CUL/ENEC/CB/CE pending

P.SU. KTCBCE

WWI-120 Selles OL/COL/ENEC/CB/CE pending				
Model No.	Output	Tol.	Effi.	
PWM-120-12	12V, 0~10A	±4%	89.0%	
PWM-120-24	24V, 0~5A	±4%	90.0%	
PWM-120-36	36V, 0~3.4A	±2%	90.0%	
PWM-120-48	48V, 0~2.5A	±1%	91.0%	



Features

- · Universal AC input / Full range
- Fully isolated plastic case with screw terminal style of I/O
- · Adjustable output voltage and current level
- Built-in active PFC function
- · High efficiency up to 89%
- · Class 2 power unit / Pass LPS
- · Isolation class II, no F.G. for PLC-30

- · Cooling by free air convection
- Protections: Short circuit / Over current / Over voltage / Over temperature
- 100% full load burn-in test
- \cdot Suitable for LED lighting and moving sign applications
- · 2 years warranty

	PLC-30	PLC-45/60	PLC-100
INPUT OUTPUT	1 3 mm 1 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm		

AC input voltage range	90~264VAC; 127~370VDC				
AC inrush current (max.)	Cold start, 35A at 230VAC Cold start, 40A at 230VAC				
DC adjustment range	95%~110% rated output voltage	90%~110% rated output voltage	85%~100% rated output voltage		
Current adjustment range	75%~103%		75%~100%		
Over current protection	100%~110% constant current limiting, auto-recovery	95%~110% constant current 95%~102% constant current limiting, auto-recovery limiting, auto-recovery			
Over voltage protection	110%~155% rated output voltage	ge 115%~140% rated output voltage 107%~135% rated output v			
Setup time	500ms at full load and 230VAC				
Withstand voltage	I/P-O/P: 3.75kVAC	I/P-O/P: 3.75kVAC			
Working temperature	-30~+50°C (refer to output derati	ng curve)			
Safety standards	UL1310, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; TUV EN60950-1 approved for PLC-100 only				
EMC standards	EN55015, EN55022 class B (PLC-45/60/100), EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547				
Connection (Input / Output)	2+2P screw terminal block	3+2P screw terminal block			
Dimension (LxWxH)(mm)	160x 46x 30	181.5x 62x 35 200.5x 69.5x 35			
Packing	0.2kg; 70pcs / 15kg	0.41kg; 30pcs / 13.3kg			

PLC-60 Series PSI

PLC-30 Serie	S (for 48V only) c	9 US (for 9~36V)		CB (€
Model No.	Output	Tol.	R&N	Effi.
PLC-30-9	9V, 0~3.3A	±10%	2.6V	80.0%
PLC-30-12	12V, 0~2.5A	±10%	2.0V	82.5%
PLC-30-15	15V, 0~2.0A	±10%	2.6V	83.5%
PLC-30-20	20V, 0~1.5A	±10%	2.6V	84.0%
PLC-30-24	24V, 0~1.25A	±10%	2.4V	84.0%
PLC-30-27	27V, 0~1.12A	±10%	2.3V	84.5%
PLC-30-36	36V, 0~0.84A	±10%	3.6V	85.0%
PLC-30-48	48V, 0~0.63A	±10%	3.7V	85.5%

PLC-00 Selle	(for 48V only) C	US (for 12~36V)		
Model No.	Output	Tol.	R&N	Effi.
PLC-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
PLC-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
PLC-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
PLC-60-24	24V, 0~2.5A	±10%	2.4V	87.0%
PLC-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
PLC-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
PLC-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

91

A A CRCE

PLC-45 Serie	S (for 48V only) c	3 US (for 12~36V)		CB (€
Model No.	Output	Tol.	R&N	Effi.
PLC-45-12	12V, 0~3.8A	±10%	2.0V	83.5%
PLC-45-15	15V, 0~3.0A	±10%	2.4V	85.0%
PLC-45-20	20V, 0~2.3A	±10%	1.8V	86.5%
PLC-45-24	24V, 0~1.9A	±10%	2.7V	86.5%
PLC-45-27	27V, 0~1.7A	±10%	2.7V	86.5%
PLC-45-36	36V, 0~1.25A	±10%	3.6V	87.5%
PLC-45-48	48V, 0~0.95A	±10%	4.6V	87.5%

PLC-	100 Seri	es 🕞 🕄 (for 48V	only) c SUUs (for 12~	36V)	炒CB(€
M	odel No.	Output	Tol.	R&N	Effi.
PLO	C-100-12	12V, 0~5.0A	±3%	150mV	83.0%
PLO	C-100-15	15V, 0~5.0A	±3%	150mV	85.0%
PLO	C-100-20	20V, 0~4.8A	±3%	150mV	88.5%
PLO	C-100-24	24V, 0~4.0A	±3%	150mV	88.5%
PLO	C-100-27	27V, 0~3.55A	±3%	150mV	88.0%
PLO	C-100-36	36V, 0~2.65A	±2%	150mV	88.0%
PLO	C-100-48	48V, 0~2.0A	±2%	200mV	88.5%

PLN series

20~96W Single Output with PFC

Features

- · Universal AC input (up to 295VAC) / Full range
- · Fully isolated plastic case with IP64 level
- Built-in active PFC function
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Class 2 power unit / Pass LPS

- · Isolation class II, no F.G. for PLN-20/30
- User adjustable output voltage (except for PLN-20) and current protection level
- · Cooling by free air convection
- \cdot Suitable for LED lighting and moving sign applications
- · 2 years warranty

		PLN-20	PLN-30	PLN-45/60	PLN-100
PLN-20 PLN-30 OUTPU PLN-20 PLN-30/	RN45/60/100 F 45/60/100				
AC input voltage	e range	90~277VAC; 127~392VDC	90~295VAC; 127~41	7VDC	
AC inrush curre	nt (max.)	Cold start, 35A at 230VA	Ĉ		Cold start, 40A at 230VAC
DC adjustment	range	None	95%~108% rated outp	85%~100% rated output voltage	
Current adjustm	nent range	75%~100%	75%~103%		
Over current pro	otection	95%~110% constant current limiting, auto-recovery	100%~110% constant current limiting, auto-recovery	95%~110% constant current limiting, auto-recovery	95%~102% constant current limiting, auto-recovery
Over voltage pr	otection	105%~142% rated output voltage	110%~155% rated output voltage	115%~140% rated output voltage	107%~135% rated output voltage
Setup time		500ms at full load and 230	VAC		
Withstand volta	ge	I/P-O/P: 3.75kVAC		I/P-O/P: 3.75kVAC I/P-F	G: 2kVAC O/P-FG: 1.5kVAC
Working temper	ature	-30~+60°C	-30~+50°C (refer to o	utput derating curve)	
Safety standard	UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved for PLN-20 Safety standards UL879, UL1310, UL8750(PLN-45/60), TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved for PLN-30/45 UL879, UL1310, UL8750, TUV EN61347-1, EN61347-2-13, EN60950-1, PSE J61347-1, J61347-2-13 approved for PLN-10				
EMC standards		EN55015, EN55022 class B EN61000-4-2,3,4,5,6,8,11,		1000-3-2 class C, EN6100	00-3-3,
Connection	Input	UL rated, UL1015	UL rated, SVT	UL rated, SVT 18AWGx3C (30cm)	UL rated, SVT 18AWGx3C (31cm)
	Output	18AWGx2C (32cm)	18AWGx2C (32cm)	UL rated, SVT 18AWGx2C (30cm)	, , , , , , , , , , , , , , , , , , ,
Dimension (LxW	imension (LxWxH) (mm) 148.5x 38.5x 28 145x 47x 30 181x 61.5x 35 200x 70.5x 35				

PLN-20 Serie	es	r.	us 📤 🛕	⊗CB(€
Model No.	Output	Tol.	R&N	Effi.
PLN-20-12	12V, 0~1.6A	±10%	2.5V	80.0%
PLN-20-18	18V, 0~1.1A	±10%	3.0V	81.0%
PLN-20-24	24V, 0~0.8A	±10%	3.0V	82.0%
PLN-20-36	36V, 0~0.55A	±10%	3.0V	83.0%
PLN-20-48	48V, 0~0.42A	±10%	3.8V	83.5%

PLN-30 Serie	es P (for 9~36	c	us A A	©СВ(€
Model No.	Output	Tol.	R&N	Effi.
PLN-30-9	9V, 0~3.3A	±10%	2.6V	80.0%
PLN-30-12	12V, 0~2.5A	±10%	2.0V	82.5%
PLN-30-15	15V, 0~2.0A	±10%	2.6V	83.5%
PLN-30-20	20V, 0~1.5A	±10%	2.6V	84.0%
PLN-30-24	24V, 0~1.25A	±10%	2.6V	84.0%
PLN-30-27	27V, 0~1.12A	±10%	2.3V	84.5%
PLN-30-36	36V, 0~0.84A	±10%	4.5V	85.0%
PLN-30-48	48V, 0~0.63A	±10%	3.7V	85.5%
		_,		A CDCC

PLN-45 S	eries 🕞 🖺	(for 48V only) c	US (for 12~36V)	₹ ØCB(€
Model No	o. Out	put To	I. R&N	Effi.
PLN-45-1	2 12V, 0~	·3.8A ±10)% 2.0V	83.5%
PLN-45-1	5 15V, 0~	3.0A ±10	0% 2.4V	85.0%
PLN-45-2	20V, 0	~2.3A ±10)% 1.8V	86.5%

Model No.	Output	Tol.	R&N	Effi.
PLN-45-24	24V, 0~1.9A	±10%	2.7V	86.5%
PLN-45-27	27V, 0~1.7A	±10%	2.7V	86.5%
PLN-45-36	36V, 0~1.25A	±10%	3.6V	87.5%
PLN-45-48	48V, 0~0.95A	±10%	4.6V	87.5%

PLN-60 Series R M (for 48V only) R Us (for 12-36V)								
Model No.	Output	Tol.	R&N	Effi.				
PLN-60-12	12V, 0~5.0A	±10%	2.0V	85.0%				
PLN-60-15	15V, 0~4.0A	±10%	2.4V	86.0%				
PLN-60-20	20V, 0~3.0A	±10%	1.8V	87.5%				
PLN-60-24	24V, 0~2.5A	±10%	2.7V	87.0%				
PLN-60-27	27V, 0~2.3A	±10%	2.7V	88.0%				
PLN-60-36	36V, 0~1.7A	±10%	3.6V	89.0%				
PLN-60-48	48V, 0~1.3A	±10%	4.6V	89.0%				

PLN-100 Series R N (for 48V only) c N us (for 12-36V)							
Model No.	Output	Tol.	R&N	Effi.			
PLN-100-12	12V, 0~5.0A	±3%	150mV	83.0%			
PLN-100-15	15V, 0~5.0A	±3%	150mV	85.0%			
PLN-100-20	20V, 0~4.8A	±3%	150mV	88.5%			
PLN-100-24	24V, 0~4.0A	±3%	150mV	88.5%			
PLN-100-27	27V, 0~3.55A	±3%	150mV	88.0%			
PLN-100-36	36V, 0~2.65A	±2%	150mV	88.0%			
PLN-100-48	48V, 0~2.0A	±2%	200mV	88.5%			

HLN series

40~80W Single Output with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- · Fully isolated plastic case with IP64 level
- · Built-in active PFC function
- Protections:
- Short circuit / Over current / Over voltage / Over temperature
- · Class 2 power unit / Pass LPS
- · High efficiency up to 91%
- · Cooling by free air convection

- · Suitable for dry, damp location
- · Suitable for LED lighting and moving sign applications
- Multiple models for choice:

A-Type: IP64 rated. Output voltage and constant current level can be adjusted through internal potentiometer

B-Type: IP64 rated and built-in 3 in 1 dimming function

(1-10VDC, PWM signal, or resistance)

· 3 years warranty

	HLN-40H	HLN-60H	HLN-80H			
OUTPUT		A B	A B			
AC input voltage range	90~305VAC; 127~431VDC					
AC inrush current (max.)	Cold start, 50A at 230VAC	Cold start, 55A at 230VAC	Cold start, 70A at 230VAC			
DC adjustment range	±10% rated output voltage	(A-Type only)				
Current adjustment range	60%~100%					
Over current protection	95%~108% constant curren	t limiting, auto-recovery				
Over voltage protection	109%~150% rated output ve	oltage				
Setup, rise, hold up time	500ms, 80ms, 16ms at full	load and 230VAC				
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG:	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG:1.5kVAC				
Working temperature	-40~+50°C (refer to output	derating curve)				
Safety standards		UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; Design refer to UL/EN60950-1, EN60335-1for HLN-40H/60H				

EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547

A-Type: UL rated, SVT 18AWGx2C (30cm); B-Type: UL rated, SVT 18AWGx4C (30cm)

ı	HLN-40H Series 🕞 💫 (for 48-54/) c 🔊 us (for 12-42/)							
	Model No.	Output	Tol.	R&N	Effi.			
	HLN-40H-12 (A)	12V, 0~3.33A	±2.5%	150mV	86.5%			
	HLN-40H-15 (A)	15V, 0~2.67A	±2.0%	150mV	86.5%			
	HLN-40H-20 (A)	20V, 0~2.00A	±1.0%	150mV	87.5%			
	HLN-40H-24 (A)	24V, 0~1.67A	±1.0%	150mV	88.0%			
	HLN-40H-30 (A)	30V, 0~1.34A	±1.0%	200mV	88.5%			
	HLN-40H-36 (A)	36V, 0~1.12A	±1.0%	200mV	88.5%			
	HLN-40H-42 (A)	42V, 0~0.96A	±1.0%	300mV	88.5%			
	HLN-40H-48 (A)	48V, 0~0.84A	±1.0%	300mV	89.0%			
	HLN-40H-54 (A)	54V, 0~0.75A	±1.0%	300mV	89.0%			
	_							

161x 61.5x 35

UL rated, SVT 18AWGx3C (30cm)

 \bigcirc = A or B

EMC standards

Dimension (LxWxH) (mm)

Connection

Input

Output

HLN-60H Series (FC) M (for 48–54V) c M us (for 15–42V)							
Model No.	Output	Output Tol.		Effi.			
HLN-60H-15 (A)	15V, 0~4.0A	±2.0%	150mV	87.0%			
HLN-60H-20 (A)	20V, 0~3.0A	±1.0%	150mV	88.5%			
HLN-60H-24A	24V, 0~2.5A	±1.0%	150mV	89.0%			
HLN-60H-30(A)	30V, 0~2.0A	±1.0%	200mV	89.5%			

Model No.	Output	Tol.	R&N	Effi.
HLN-60H-36A	36V, 0~1.70A	±1.0%	200mV	90.0%
HLN-60H-42 (A)	42V, 0~1.45A	±1.0%	300mV	90.0%
HLN-60H-48(A)	48V, 0~1.30A	±1.0%	300mV	90.5%
HLN-60H-54A	54V, 0~1.15A	±1.0%	300mV	90.5%
\bigcirc = A or B				

181x 61.5x 35

HLN-80H Series ♠ 🔁 (for 48-54V) c 🔁 US (for 12-42V) 🚉 🚉 � CB(€ Model No. HLN-80H-12(A) 12V, 0~5.0A ±2.5% 150mV 88.0% HLN-80H-15A 15V, 0~5.0A ±2.0% 150mV 89.0% HLN-80H-20A 20V, 0~4.0A ±1.0% 150mV 90.0% HLN-80H-24(A) 24V, 0~3.4A ±1.0% 150mV 90.5% 30V, 0~2.7A HLN-80H-30(A) ±1.0% 200mV 91.0% HLN-80H-36A 36V, 0~2.3A ±1.0% 200mV 91.0%

±1.0%

200mV

42V, 0~1.95A

91.0%

 \bigcirc = A or B

HLN-80H-42(A)



▶ Features

- · Output current level selectable by DIP switch
- LCM-25(DA): 180~277VAC input only LCM-40(DA)/60(DA): 180~295VAC input only
- Built-in active PFC function
- Protections: Short circuit / Over voltage (40W/60W only) / Over temp.
- · Cooling by free air convection
- · Fully isolated plastic case
- No load power consumption <0.5W (LCM-25/25DA/40DA/60DA)
 No load power consumption <1W (LCM-40/60)
- · Class II power unit, no F.G.
- Logarithm or linear dimming curve selectable (meet IEC62386-207) for DA-Type
- Built-in 0~10Vdc and PWM signal dimming function (non DA-Type)
- Built-in DALI interface and push dimming function (DA-Type)
- 12V/50mA auxiliary output for LCM-40/60 (optional for LCM-40DA/60DA)
- Temperature compensation function by external NTC (40W/60W only)
- · Power supplies synchronization function up to 10 units
- · Suitable for indoor LED lighting applications
- · 3 years warranty

	INPUT	OUTPUT		
	25W/40W/60W	25W	40W/60W	
Non-DA Type		3333	555555 P	
DA-Type		33	ala e	





AC input voltage range	180~277VAC; 254~392VDC	180~295VAC; 254~417VDC				
AC inrush current (Typ.)	Cold start, 20A at 230VAC					
Short circuit protection	Constant current limiting, recovers automatically after f	ault condition is removed				
Over voltage protection	LCM-40/40DA: 110~130VDC, LCM-60/60DA: 105~125VDC					
Over temperature	LCM-25(DA): Shut down o/p voltage, recovers automatically after fault condition is removed					
protection	LCM-40/60(DA): Shut down o/p voltage, re-power on to recover					
Setup, rise, hold up time	500ms, 50ms, 30ms 500ms, 80ms, 16ms at full load and 230VA					
Withstand voltage	I/P-O/P: 3.75kVAC					
Working temperature	-30~+60°C (refer to output derating curve)					
Safety standards	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved;	CQC GB19510.1, GB19510.14 for LCM-40(DA)/60(DA)				
DALI standards	Comply with IEC62386-101, 102, 207 (LCM-25DA/40DA/60DA only)					
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547; GB17743, GB17625.1 for LCM-40(DA)/60(DA)				
Dimension (LxWxH)(mm)	105x 68x 23	123.5x 81.5x 23				

LCM-25(DA) Series



Output	Io Tol. R&N	D 9 NI	&N Effi.	DIP Switch								
		Kan		1	2	3	4	5	6			
350mA, 6~54V												
500mA, 6~50V				ON								
600mA, 6~42V	. 50/	400mV	86%	ON	ON							
700mA, 6~36V (Factory setting)	±5%	400mv	4001110	4001110 80	4001110	+UUIIIV 60%	ON	ON	ON			ON
900mA, 6~28V				ON	ON	ON	ON		ON			
1050mA, 6~24V				ON	ON	ON	ON	ON	ON			

LCM-40(DA) Series



Output	Io Tol. R&N		Effi.	DIP Switch					
Output	10 101.	KQN	EIII.	1	2	3	4	5	6
350mA, 2~100V									
500mA, 2~80V	±5%			ON					
600mA, 2~67V		700mV	91%	ON	ON				
700mA, 2~57V (Factory setting)		7 0 0 111 V	91/0	ON	ON	ON			ON
900mA, 2~45V				ON	ON	ON	ON		ON
1050mA, 2~40V				ON	ON	ON	ON	ON	ON

LCM-60(DA) Series



Output	Io Tol.	R&N Effi.		DIP Switch					
Output	10 101.	KQN	EIII.	1	2	3	4	5	6
500mA, 2~90V									
600mA, 2~90V				ON					
700mA, 2~86V (Factory setting)	±5%	700mV	92%	ON	ON				
900mA, 2~67V	±3%	700mv	92%	ON	ON	ON			ON
1050mA, 2~57V				ON	ON	ON	ON		ON
1400mA, 2~42V				ON	ON	ON	ON	ON	ON

- ▶ LCM-25/40/60 are primary models with $0\sim10\,\text{Vdc}$ and PWM signal dimming function.
- ► LCM-25DA/40DA/60DA have DALI interface and push dimming function.

▶ Features

- · Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage / Over temperature (PLP-20 only)

PLP-20

- Built-in active PFC function
- · Cooling by free air convection

- · Class 2 power unit / Pass LPS
- · Isolation class II, no F.G. for PLP-20
- · Suitable for building in LED lighting systems

PLP-45/60

· 2 years warranty

PLP-30

		A STATE OF THE PARTY OF THE PAR				
AC input volt	age range	90~277VAC; 127~392VDC	90~264VAC; 127~370VDC			
AC inrush current (max.)		Cold start, 25A at 230VAC		PLP-45: Cold start, 30A at 230VAC PLP-60: Cold start, 35A at 230VAC		
Current adjus	table range	75%~100%				
Over current	Range	95%~110%	100%~110%			
protection	Type	Constant current limiting, auto-recovery				
Setup time		500ms at full load and 230VAC				
Withstand vol	tage	I/P-O/P: 3.75kVAC	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC			
Working temp	perature	-30~+60°C	-30~+70°C (refer to output derating curve)			
Safety standa	rds	UL8750, TUV EN61347-1, EN61347-2-13 approved				
EMC standard	ls	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547				
Connection		UL1015 18AWGx2C (30cm)	3+2P / 3.96mm pitch, JST P/N: B3P / B2P-VH			
Dimension (L	xWxH)(mm)	140x 32x 22	101.6x 50.8x 26.6	101.6x 50.8x 29.6		

PLP-20 Serie	es	₽.¶	Lus A	CBC
Model No.	Output	Tol.	R&N	Effi.
PLP-20-12	12V, 0~1.6A	±10%	2.5V	80.0%
PLP-20-18	18V, 0~1.1A	±10%	3.0V	81.0%
PLP-20-24	24V, 0~0.8A	±10%	3.0V	82.0%
PLP-20-36	36V, 0~0.55A	±10%	3.0V	83.0%
PLP-20-48	48V, 0~0.42A	±10%	3.8V	83.5%

1 20 40	40V, 0 10.42A	±1070	3.0 V	03.370
PLP-30 Serie	2S (for 48V	only) c SUUS (for 12	2/24V)	CB (€
Model No.	Output	Tol.	R&N	Effi.
PLP-30-12	12V, 0~2.5A	±10%	2.0V	83.0%
PLP-30-24	24V, 0~1.3A	±10%	2.4V	85.5%
PLP-30-48	48V, 0~0.63A	±10%	4.8V	86.5%

PLP-45 Serie	s PM (for	- 48V only) c TU US (6	For 12/24V)	CBCE
Model No.	Output	Tol.	R&N	Effi.
PLP-45-12	12V, 0~3.8A	±10%	4.2V	86%
PLP-45-24	24V, 0~1.9A	±10%	3.8V	89%
PLP-45-48	48V, 0~0.95A	±10%	4.8V	89%

PLP-60 Serie	(for	48V only) c TLL US (fo	or 12/24V)	CDCE
Model No.	Output	Tol.	R&N	Effi.
PLP-60-12	12V, 0~5.0A	±10%	4.5V	84%
PLP-60-24	24V, 0~2.5A	±10%	4.5V	88%
PLP-60-48	48V, 0~1.3A	±10%	4.8V	89%

A CDCC

—	— ▶ Special Symbols for EN61347-2-13 ————————————————————————————————————					
	V110	Protection against overheating to prevent the lamp controlgear case temperature under any conditions of use from exceeding the indicated value (110°C)				
	F	Suitable for direct mounting on normally flammable surfaces, such as wood (>2mm)				
	₩ W	Based on VDE0710-14, can be installed inside a wooden material like wooden cabinet. The minimum distance between the product enclosure to wooden material in each side is defined.				
	LPS	Limited power source				
	tc: 80°C ta: 40°C	Full load operation up to 40°C with surface temperature of case < 80°C				
	SELV	Vo< 120VDC can have this mark on the unit				

HLP series 40~80W Single Output with PFC

▶ Features

- Universal AC input (up to 305VAC) / Full range
- Protections:
- Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- ·Output constant current level adjustable
- ·Class 2 power unit / Pass LPS

- ·Cooling by free air convection
- ·Suitable for built-in LED lighting system
- Built-in 3 in 1 dimming function
 (1~10VDC, PWM signal, or resistance)
- · 3 years warranty

HLP-40H	HLP-60H	HLP-80H
	A	
-		

AC input voltage	e range	90~305VAC; 127~431VDC			
AC inrush curre	nt (max.)	Cold start, 50A at 230VAC	old start, 50A at 230VAC Cold start, 55A at 230VAC Cold start, 70A at 230VAC		
DC adjustment	range	±10% rated output voltag	je		
Current adjustm	nent range	60%~100%		80%~100%	
Over current pro	otection	95%~108% constant curre	ent limiting, auto-recover	У	
Over voltage pro	Over voltage protection 109%~145% rated output voltage				
Setup, rise, hold up time 500ms, 80ms, 16ms at full load and 230VAC 500ms, 2			500ms, 200ms, 16ms at full load and 230VAC		
Withstand voltage I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG:1.5kVAC			AC		
Working temper	ature	-40~+70°C (refer to output derating curve)			
Safety standards		UL8750, TUV EN61347-1, EN61347-2-13 approved; Design refer to EN60335-1(HLP-40H/60H), UL60950-1, EN60950-1			
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
Connection	Input	6 6D/2 O6mm nitch IST	D/N: DCD VIII		
Connection	Output	6+6P/3.96mm pitch, JST	r/IN. DUF-VII		
Dimension (LxW	/xH) (mm)	147x 53x 27	167x 53x 29.5		

Model No.	Output	Tol.	R&N	Effi.
HLP-40H-12	12V, 0~3.33A	±2.5%	150mV	87.0%
HLP-40H-15	15V, 0~2.67A	±2.0%	150mV	87.0%
HLP-40H-20	20V, 0~2.00A	±1.0%	150mV	88.0%
HLP-40H-24	24V, 0~1.67A	±1.0%	150mV	88.0%
HLP-40H-30	30V, 0~1.34A	±1.0%	200mV	88.5%
HLP-40H-36	36V, 0~1.12A	±1.0%	200mV	89.0%
HLP-40H-42	42V, 0~0.96A	±1.0%	300mV	89.0%
HLP-40H-48	48V, 0~0.84A	±1.0%	300mV	89.5%
HLP-40H-54	54V, 0~0.75A	±1.0%	300mV	89.5%

HLP-60H Series	(for 48V/54V) c % US (for 12~42V)	CBCE

Model No.	Output	Tol.	R&N	Effi.
HLP-60H-15	15V, 0~4.0A	±2.0%	150mV	88.0%
HLP-60H-20	20V, 0~3.0A	±1.0%	150mV	89.0%
HLP-60H-24	24V, 0~2.5A	±1.0%	150mV	89.5%
HLP-60H-30	30V, 0~2.0A	±1.0%	200mV	90.0%

Model No.	Output	Tol.	R&N	Effi.
HLP-60H-36	36V, 0~1.70A	±1.0%	200mV	90.0%
HLP-60H-42	42V, 0~1.45A	±1.0%	300mV	90.0%
HLP-60H-48	48V, 0~1.30A	±1.0%	300mV	90.5%
HLP-60H-54	54V, 0~1.15A	±1.0%	300mV	90.5%

HLP-80H Series	F ON (for 48V/54	v) c 711 us (for 12	2~42V)	CBC€
Model No.	Output	Tol.	R&N	Effi.
HLP-80H-12	12V, 0~5.0A	±2.5%	150mV	87.5%
HLP-80H-15	15V, 0~5.0A	±2.0%	150mV	88.5%
HLP-80H-20	20V, 0~4.0A	±1.0%	150mV	89.5%
HLP-80H-24	24V, 0~3.4A	±1.0%	150mV	90.0%
HLP-80H-30	30V, 0~2.7A	±1.0%	200mV	90.0%
HLP-80H-36	36V, 0~2.3A	±1.0%	200mV	90.0%
HLP-80H-42	42V, 0~1.95A	±1.0%	200mV	90.0%
HLP-80H-48	48V, 0~1.7A	±1.0%	200mV	90.0%
HLP-80H-54	54V, 0~1.5A	±1.0%	200mV	90.0%

series

60~96W Single Output with PFC

Features

- Universal AC input (up to 295VAC) / Full range
- Short circuit / Over current / Over voltage / Over temperature · Suitable for dry, damp, and wet location
- Built-in active PFC function
- · IP66 design
- Meet 4kV surge immunity level (IEC61000-4-5)

- Class 2 power unit / Pass LPS
- · Cooling by free air convection
- · Suitable for LED lighting and moving sign applications
- · 3 years warranty

CEN-60/75



CEN-100



AC input voltage range 90~295VAC ; 127~417VDC						
AC inrush curre	nt (max.)	Cold start, 45A at 230VAC				
DC adjustment r	range	±10% rated output voltage				
Current adjustm	ent range	75%~100% 65%~100%				
Over current pro	otection	95%~110% constant current limiting, auto-recovery				
Over voltage pro	oltage protection 110%~140% rated output voltage 110%~135% rated output voltage					
Over temp. protection Shut down o/p voltage, re-power on to recover						
Setup time 500ms at full load and 230VAC, no hold up t			500ms at full load and 230VAC, no hold up time			
Withstand voltag	ge	e I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC				
Working temper	ature	-30~+70°C (refer to output derating curve)				
Safety standards	S	UL8750, UL879 (except for CEN-100), TUV EN61347 J61347-2-13 approved	7-1, EN61347-2-13, PSE J61347-1,			
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN6	1000-4-2,3,4,5,6,8,11, EN61547			
Cammantian	Input	UL rated, SJTW 18AWGx3C (30cm)				
Connection	Output	UL rated, SVT 18AWGx2C (30cm)				
Dimension (LxW	/xH) (mm)	185x 62.5x 40.5	195x 62.5x 40.5			

CEN-60 Series



Model No.	Output	Tol.	R&N	Effi.
CEN-60-12	12V, 0~5.0A	±10%	2.0V	86%
CEN-60-15	15V, 0~4.0A	±10%	2.4V	87%
CEN-60-20	20V, 0~3.0A	±10%	1.8V	88%
CEN-60-24	24V, 0~2.5A	±10%	2.4V	89%
CEN-60-30	30V, 0~2.0A	±10%	3.0V	90%
CEN-60-36	36V, 0~1.7A	±10%	3.6V	90%
CEN-60-42	42V, 0~1.45A	±10%	4.0V	90%
CEN-60-48	48V, 0~1.3A	±10%	4.6V	91%
CEN-60-54	54V, 0~1.15A	±10%	5.0V	91%
CEN-00-34	54V, U~1.15A	±10%	5.00	91%

CEN-75 Series



Model No.	Output	Tol.	R&N	Effi.
CEN-75-15	15V, 0~5.00A	±10%	2.7V	87%
CEN-75-20	20V, 0~3.75A	±10%	2.0V	88%
CEN-75-24	24V, 0~3.15A	±10%	2.7V	89%

Model No.	Output	Tol.	R&N	Effi.
CEN-75-30	30V, 0~2.50A	±10%	3.0V	90%
CEN-75-36	36V, 0~2.10A	±10%	3.6V	90%
CEN-75-42	42V, 0~1.80A	±10%	4.0V	90%
CEN-75-48	48V, 0~1.57A	±10%	4.6V	91%
CEN-75-54	54V, 0~1.40A	±10%	5.0V	91%

CEN-100 Series ♠¶ (for 48V/54V) c¶ (stor 20-42V) ♣ ♠ CB(€

Model No.	Output	Tol.	R&N	Effi.
CEN-100-20	20V, 0~4.80A	±10%	2.0V	88%
CEN-100-24	24V, 0~4.00A	±10%	2.7V	89%
CEN-100-30	30V, 0~3.20A	±10%	3.0V	90%
CEN-100-36	36V, 0~2.65A	±10%	3.6V	90%
CEN-100-42	42V, 0~2.28A	±10%	4.0V	90%
CEN-100-48	48V, 0~2.00A	±10%	4.6V	91%
CEN-100-54	54V, 0~1.77A	±10%	5.0V	91%



▶ Features

- · Universal AC input (up to 295VAC) / Full range
- · Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- · Built-in active PFC function
- IP67/IP65 design for indoor or outdoor installations (except for C-Type)
- Output current adjustable through output cable or internal potentiometer (CLG-150)
- · Class 2 power unit / Pass LPS (CLG-60&100)
- · Cooling by free air convection

- · Suitable for LED lighting, street lighting and moving sign applications
- Meet 4kV surge immunity level (IEC 61000-4-5)
- · Multiple models for CLG-150:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated. Constant current level adjustable through output cable

C-Type: Non IP. Terminal block for I/O connection **Blank-Type**: IP67 rated. Cable for I/O connection

· 3 years warranty



		Class 2		Class	7	
AC input volta	ige range	90~295VAC; 127~417	VDC			
AC inrush curi	rent (max.)	Cold start, 35A at 230VAC	Cold start, 40	A at 230VAC	Cold start, 65A at 230VAC	
DC adjustmen	t range	Fixed. Can be modified to or 85%~100% (CLG-100)		• •	Can be adjusted between 85%~110% by internal potentiometer (A and C-Type)	
Current adjustr	ment range	Fixed. Can be modified rated output current	d between 75	%~103%	Can be adjusted between 50%~100% by internal potentiometer (A and C-Type) or through output cable (B-Type)	
Over current p	rotection	95%~110% constant current, auto-recovery	95%~110% constant 95%~102% constant current, auto-recovery current, auto-recovery		95%~108% constant current limiting, auto-recovery	
Over voltage p	orotection	110%~140% rated output voltage			110%~145% rated output voltage	
Setup, rise, ho	old up time	500ms(setup time), 500ms, 80ms, 60ms no hold up time at full load and 230VAC		-	500ms, 80ms, 16ms at full load and 230VAC	
Withstand volt	tage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5k			(VAC	
Working temp	erature	-30~+70°C (refer to o	utput deratir	ng curve)		
Safety standar	UL1310, UL8750, UL879, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; TUV EN60950-1 for CLG-100 only		ŕ	UL60950-1, UL1012, UL8750, UL879, TUV EN60950-1, EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13(except for CLG-150 C-Type) approved		
EMC standards	S	EN55015, EN55022 cla	ass B, EN6100	0-3-2 class C,	EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547	
	Input	UL rated, SJTW 18AW0	Gx3C (30cm)		UL rated, SJTW 18AWGx3C (30cm); Terminal block for C type	
Connection Output		UL rated, SVT 18AWGx2C (30cm)			A & Blank-Type: SJTW 14AWGx2C (30cm) B-Type: SJTW 14AWGx2C (30cm)+18AWGx2C (30cm) C-Type: Terminal block	
Dimension (Lx	WxH)(mm)	195.6x 61.5x 38.8	222.2x 68x	38.8	A/B/Blank-Type: 222.2x 68x 38.8; C-Type: 229x 68x 38.8	
Packing		0.86kg; 16pcs / 14.8kg	1.0kg; 12pcs	/ 13kg	1.0kg; 12pcs / 13kg	

(for 48V only) (for 12~36V)						
Model No.	Output	Tol.	R&N	Effi.		
★ CLG-60-12	12V, 0~5.0A	±10%	2.0V	85.0%		
CLG-60-15	15V, 0~4.0A	±10%	2.4V	86.0%		
CLG-60-20	20V, 0~3.0A	±10%	1.8V	87.5%		
★ CLG-60-24	24V, 0~2.5A	±10%	2.7V	87.0%		
CLG-60-27	27V, 0~2.3A	±10%	2.7V	88.0%		
CLG-60-36	36V, 0~1.7A	±10%	3.6V	89.0%		
★ CLG-60-48	48V, 0~1.3A	±10%	4.6V	89.0%		

CLG-100 Series

(for 48V only) (for 12~36V)						
Model No.	Output	Tol.	R&N	Effi.		
★CLG-100-12	12V, 0~5.00A	±3%	150mV	83.0%		
CLG-100-15	15V, 0~5.00A	±3%	150mV	85.0%		
CLG-100-20	20V, 0~4.80A	±3%	150mV	88.5%		
★CLG-100-24	24V. 0~4.00A	±3%	150mV	88.5%		

Model No.	Output	Tol.	R&N	Effi.
CLG-100-27	27V, 0~3.55A	±3%	150mV	88.0%
CLG-100-36	36V, 0~2.65A	±2%	150mV	88.0%
★ CLG-100-48	48V, 0~2.00A	±2%	200mV	88.5%

(R). SN ... A ■ A CBCE

CLG-150 Series

(except for C-Type)					
Output	Tol.	R&N	Effi.		
12V, 0~11.0A	±2%	150mV	88%		
15V, 0~9.50A	±2%	150mV	88%		
20V, 0~7.50A	±2%	150mV	90%		
24V, 0~6.30A	±1%	150mV	90%		
30V, 0~5.00A	±1%	150mV	91%		
36V, 0~4.20A	±1%	150mV	91%		
48V, 0~3.20A	±1%	200mV	91%		
	Output 12V, 0~11.0A 15V, 0~9.50A 20V, 0~7.50A 24V, 0~6.30A 30V, 0~5.00A 36V, 0~4.20A	Output Tol. 12V, 0~11.0A ±2% 15V, 0~9.50A ±2% 20V, 0~7.50A ±2% 24V, 0~6.30A ±1% 30V, 0~5.00A ±1% 36V, 0~4.20A ±1%	Output Tol. R&N 12V, 0~11.0A ±2% 150mV 15V, 0~9.50A ±2% 150mV 20V, 0~7.50A ±2% 150mV 24V, 0~6.30A ±1% 150mV 30V, 0~5.00A ±1% 150mV 36V, 0~4.20A ±1% 150mV		

 \square = A, B, C or blank

★CLG-60-12/24/48, CLG-100-12/24/48 & CLG-150-12A/24A/36A/48A are our popular models. We will keep sufficient stock for prompt delivery of high quantity orders.

HLG-series 40~60W High Efficiency with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- · Protections:
- Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- · High efficiency up to 90.5%
- IP67 / IP65 design for indoor or outdoor installations
- Output current adjustable through output cable or internal potentiometer
- · Cooling by free air convection
- · Suitable for dry, damp, and wet location
- · Suitable for LED lighting and street lighting applications
- Meet 4kV surge immunity level (IEC61000-4-5)

- · Class 2 power unit
- Multiple models for choice:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)

Blank-Type: IP67 rated. Cable for I/O connection

D-Type(option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

- · Optional CQC models available (HLG-40H/60H-A/Blank-Type)
- · 5 years warranty

HLG-40H A B Blank/D OUTPUT

_				
AC input voltage range 90~305VAC; 127~431VDC				
AC inrush curre	ent (max.)	Cold start, 50A at 230VAC	Cold start, 55A at 230VAC	
DC adjustment	DC adjustment range $\pm 10\%$ rated output voltage (A-Type only)			
Current adjustn	nent range	60%~100%		
Over current pr	otection	95%~108% constant current limiting, auto-recovery	,	
Over voltage pr	Over voltage protection 109%~145% rated output voltage			
Setup, rise, holo	Setup, rise, hold up time 500ms, 80ms, 16ms at full load and 230VAC			
Withstand volta	Withstand voltage I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG:1.5kVAC		AC .	
Working tempe	rature	-40~+70°C (refer to output derating curve)		
Safety standards UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; Design refer to EN60335-1		347-1, J61347-2-13 approved;		
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN	61000-4-2,3,4,5,6,8,11, EN61547	
Connection	Input	UL rated, SJTW 18AWGx3C (30cm)		
Connection	Output	A/D/Blank-Type: SVT 18AWGx2C (30cm); B-Type: S	SVT 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)	
Dimension (LxV	VxH) (mm)	171x 61.5x 36.8		

ı	HLG-40H Series	(for 48V/54V)	c Sus (for 12~42V)		CBC
	Model No.	Output	Tol.	R&N	Effi.
	HLG-40H-12(A)	12V, 0~3.33A	±2.5%	150mV	86.5%
	HLG-40H-15A	15V, 0~2.67A	±2.0%	150mV	86.5%
	HLG-40H-20 (A	20V, 0~2.00A	±1.0%	150mV	88.0%
	HLG-40H-24(A)	24V, 0~1.67A	±1.0%	200mV	88.0%
	HLG-40H-30(A)	30V, 0~1.34A	±1.0%	200mV	88.5%
	HLG-40H-36(A)	36V, 0~1.12A	±1.0%	200mV	88.5%
	HLG-40H-42(A)	42V, 0~0.96A	±1.0%	200mV	88.5%
	HLG-40H-48(A)	48V, 0~0.84A	±1.0%	300mV	89.5%
	HLG-40H-54(A)	54V, 0~0.75A	±1.0%	300mV	89.5%

 \bigcirc = A, B, D or Blank

HLG-60H Series	(for 48V/54V) c	US (for 15~42V)		©CB (€
Model No.	Output	Tol.	R&N	Effi.
HLG-60H-15(A)	15V, 0~4.0A	±2.0%	150mV	87.5%
HLG-60H-20(A)	20V, 0~3.0A	±1.0%	150mV	89.0%
HLG-60H-24(A)	24V, 0~2.5A	±1.0%	150mV	89.5%
HLG-60H-30(A)	30V, 0~2.0A	±1.0%	200mV	90.0%

Model No.	Output	Tol.	R&N	Effi.
HLG-60H-36(A)	36V, 0~1.70A	±1.0%	200mV	90.0%
HLG-60H-42(A)	42V, 0~1.45A	±1.0%	300mV	90.0%
HLG-60H-48(A)	48V, 0~1.30A	±1.0%	300mV	90.5%
HLG-60H-54A	54V, 0~1.15A	±1.0%	300mV	90.5%

 \bigcirc = A, B, D or Blank

Junction Box for HLG Series

- Optional junction box available for HLG-80H~320H series (A/B/Blank-Type only). Please contact MEAN WELL for details.
- "UL8750 listed" safety & IP66 approved for HLG-80H-□BL (modified from B-Type only)



▶ Features

- · Universal AC input (up to 305VAC) / Full range
- · Protections:
- Short circuit / Over current / Over voltage / Over temperature
- · Built-in active PFC function
- · High efficiency up to 93.5%
- IP67 / IP65 design for indoor or outdoor installations
- Output current adjustable through output cable or internal potentiometer
- · Cooling by free air convection
- · Suitable for dry, damp, and wet location
- · Suitable for LED lighting and street lighting applications
- Meet 4kV surge immunity level (IEC61000-4-5)
- ·Class 2 power unit / Pass LPS (except for HLG-120H)

- · Multiple models for choice:
- **A-Type:** IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer
- B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)
- Blank-Type: IP67 rated. Cable for I/O connection
- BL-Type(option): for HLG-80H B-Type only, "UL8750 listed" safety & IP66 approved, contact MEAN WELL for details
- D-Type(option): IP67 rated. Timer dimming function, contact MEAN WELL for details (safety pending for 100W/120W)
- Optional CQC models available (HLG-80H/100H/120H-A/Blank type)
- 5 years warranty

HLG-80H HLG-100H/HLG-120H INPUT OUTPUT OUTPUT

AC input voltag	e range	90~305VAC; 127~431VDC			
AC inrush curre	nt (max.)	Cold start, 70A at 230VAC	Cold start, 60A at 230VAC		
DC adjustment	range	±10% rated output voltage (A-Type only)			
Current adjustm	nent range	HLG-80H/100H: 60%~100%; HLG-120H: 50%~1	00%		
Over current pro	otection	95%~108% constant current limiting, auto-reco	very		
Over voltage pr	otection	110%~140% rated output voltage			
Setup, rise, hold	l up time	500ms, 80ms, 16ms at full load and 230VAC	500ms, 50ms, 16ms at full load and 230VAC		
Withstand volta	ge	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG:1.5kVAC			
Working temper	ature	-40~+70°C (refer to output derating curve)			
Cafata attandand		UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved;			
Safety standard	S	UL8750 listed for HLG-80H-□BL only; ENEC EN61347-1, EN61347-2-13 for HLG-120H only			
		EN55015, EN55022 class B (except for HLG-80H), EN61000-3-2 class C, EN61000-3-3,			
EMC standards		EN61000-4-2,3,4,5,6,8,11, EN61547			
	Input	UL rated, SJTW 18AWGx3C (30cm)			
Connection		A/D/Blank-Type: SVT 18AWGx2C (30cm);	A/D/Blank-Type: SJTW 14AWGx2C (30cm);		
	Output	B-Type: SVT 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)	B-Type: SJTW 14AWGx2C (30cm)+SJTW 18AWGx2C (30cm)		
Dimension (LxW	/xH) (mm)	195.6x 61.5x 38.8	220x 68x 38.8		

A & CB(€

			-	
HLG-80H Series	(for 48V/54V)	US (for 12~42V)	(for 48/54BL) c	us (for 12~42BL)
Model No.	Output	Tol.	R&N	Effi.
HLG-80H-12(A)	12V, 0~5.0A	±2.5%	150mV	88.0%
HLG-80H-15(A)	15V, 0~5.0A	±2.0%	150mV	89.0%
HLG-80H-20(A)	20V, 0~4.0A	±1.0%	150mV	90.0%
HLG-80H-24(A)	24V, 0~3.4A	±1.0%	150mV	90.5%
HLG-80H-30(A)	30V, 0~2.7A	±1.0%	200mV	91.0%
HLG-80H-36(A)	36V, 0~2.3A	±1.0%	200mV	91.0%
HLG-80H-42(A)	42V, 0~1.95A	±1.0%	200mV	91.0%
HLG-80H-48(A)	48V, 0~1.7A	±1.0%	200mV	91.0%
HLG-80H-54(A)	54V, 0~1.5A	±1.0%	200mV	91.0%
_				

 \bigcirc = A , B, BL, D or Blank

HLG-100H Series	r.	U us 🔼	<u> </u>	CB (E
Model No.	Output	Tol.	R&N	Effi.
HLG-100H-20A	20V, 0~4.8A	±1.0%	150mV	93%
HLG-100H-24(A)	24V, 0~4.0A	±1.0%	150mV	93%
HLG-100H-30(A)	30V, 0~3.2A	±1.0%	200mV	93%
HLG-100H-36A	36V, 0~2.65A	±1.0%	200mV	93%

Model No.	Output	Tol.	R&N	Effi.
HLG-100H-42(A)	42V, 0~2.28A	±1.0%	200mV	93%
HLG-100H-48(A)	48V, 0~2.0A	±1.0%	200mV	93%
HLG-100H-54A	54V, 0~1.77A	±1.0%	200mV	93%

 \bigcirc = A, B, D or Blank

HLG-120H Series	® .¶	us 17	<u>4</u>	CBC€
Model No.	Output	Tol.	R&N	Effi.
★ HLG-120H-12 (A	12V, 0~10A	±2.5%	150mV	92.0%
HLG-120H-15A	15V, 0~8.0A	±2.0%	150mV	92.0%
HLG-120H-20A	20V, 0~6.0A	±1.0%	150mV	93.0%
★ HLG-120H-24 A	24V, 0~5.0A	±1.0%	150mV	93.0%
HLG-120H-30A	30V, 0~4.0A	±1.0%	200mV	93.0%
HLG-120H-36	36V, 0~3.4A	±1.0%	200mV	93.0%
HLG-120H-42 (A)	42V, 0~2.9A	±1.0%	200mV	93.0%
★ HLG-120H-48 (A)	48V, 0~2.5A	±1.0%	200mV	93.5%
HLG-120H-54A	54V, 0~2.3A	±1.0%	200mV	93.5%
O - A P D or Pl	ank			

 \bigcirc = A , B, D or Blank

★ HLG-120H-12A/24A/48A are our popular models. We will keep sufficient stock for prompt delivery of high quantity orders.

150~240W High Efficiency with PFC

Features

- · Universal AC input (up to 305VAC) / Full range
- · Protections:
- Short circuit / Over current / Over voltage / Over temp.
- · Built-in active PFC function
- · High efficiency up to 949
- · IP67 / IP65 design for indoor or outdoor installations (except for HLG-240H C-Type)
- · Output current adjustable
- Cooling by free air convection
- · Suitable for LED lighting and street lighting applications
- Meet 4kV surge immunity level (IEC61000-4-5)
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires

• Multiple models for choice:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated and built-in 3 in 1 dimming function

(1~10VDC, PWM signal, or resistance)

C-Type: Terminal block for I/O connection (HLG-240H)

Blank-Type: IP67 rated. Cable for I/O connection

D-Type(option): IP67 rated. Timer dimming function, contact MEAN WELL for details (safety pending)

• Optional CQC models available (HLG-150H/185H/240H-A/Blank-Type)

5 years warranty

HLG-150H/185H



AG invariable of the Control of the					
AC input volta	ige range	90~305VAC; 127~431VDC			
AC inrush cur	rent (max.)	Cold start, 65A at 230VAC	Cold start, 75A at 230VAC		
DC adjustmen	it range	±10% rated output voltage	±6% rated output voltage		
Current adjust	ment range	HLG-150H: 60%~100%; HLG-185H/240H: 50%~100	9%		
Over current p	orotection	95%~108% constant current limiting, auto-recovery	Y		
Over voltage	protection	110%~140% rated output voltage			
Setup, rise, ho	old up time	500ms, 50ms, 16ms	500ms, 80ms, 15ms at full load and 230VAC		
Withstand vol	tage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVA	C		
Working temp	erature	-40~+70°C (refer to output derating curve)			
Safety standar	rds	UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 (except for HLG-240H C-Type) approved; UL1012, UL60950-1, TUV EN60950-1 approved for HLG-240H only			
EMC standard	S	EN55015, EN55022 class B, EN61000-3-2 class C, E	·		
	Input	UL rated, SJTW 18AWGx3C (30cm); Terminal block	for HLG-240H C-Type		
Connection	0	A/D/Blank-Type: SJTW 14AWGx2C (30cm); B-Type: SJTW 14AWGx2C (30cm)+SJTW 18AWGx2C (30cm);			
Output		C-Type: Terminal block (HLG-240H)			
Dimension (L)	(MyU)(mm)	A /P /D /Plank Type: 228y 68y 28 8	A/B/D/Blank-Type: 244.2x 68x 38.8		
Dimension (Lx	(WXII)(MM)	A/B/D/Blank-Type: 228x 68x 38.8	C-Type: 251x 68x 38.8		

P. N. . A B & CB(€ **HLG-150H Series**

Model No.	Output	Tol.	R&N	Effi.
HLG-150H-12(A)	12V, 0~12.5A	±2.5%	150mV	91.5%
HLG-150H-15A	15V, 0~10.0A	±2.0%	150mV	92.0%
HLG-150H-20A	20V, 0~7.50A	±1.0%	150mV	93.0%
HLG-150H-24A	24V, 0~6.30A	±1.0%	150mV	93.0%
HLG-150H-30(A)	30V, 0~5.00A	±1.0%	200mV	93.5%
HLG-150H-36A	36V, 0~4.20A	±1.0%	200mV	93.5%
HLG-150H-42(A)	42V, 0~3.60A	±1.0%	200mV	94.0%
HLG-150H-48A	48V, 0~3.20A	±1.0%	200mV	94.0%
HLG-150H-54A	54V, 0~2.80A	±1.0%	200mV	94.0%

 \bigcirc = A , B , D or Blank

HLG-185H Series		71 US	<u>]</u> <u> </u> ((((((((((CBC€
Model No.	Output	Tol.	R&N	Effi.
★ HLG-185H-12 (A)	12V, 0~13.0A	±2.5%	150mV	91.5%
HLG-185H-15A	15V, 0~11.5A	±2.0%	150mV	92.0%
HLG-185H-20A	20V, 0~9.30A	±1.0%	150mV	93.0%
★ HLG-185H-24A	24V, 0~7.80A	±1.0%	150mV	93.5%
HLG-185H-30(A)	30V, 0~6.20A	±1.0%	200mV	93.5%

Model No.	Output	Tol.	R&N	Effi.
HLG-185H-36A	36V, 0~5.20A	±1.0%	200mV	93.5%
HLG-185H-42A	42V, 0~4.40A	±1.0%	200mV	94.0%
HLG-185H-48A	48V, 0~3.90A	±1.0%	200mV	94.0%
★ HLG-185H-54A	54V, 0~3.45A	±1.0%	200mV	94.0%

 \bigcirc = A , B , D or Blank

HLG-240H Series		c 711 us		CB (€
Model No.	Output	Tol.	R&N	Effi.
★HLG-240H-12A	12V, 0~16.0A	±2.5%	150mV	90.0%
HLG-240H-15A	15V, 0~15.0A	±2.0%	150mV	90.0%
HLG-240H-20A	20V, 0~12.0A	±1.0%	150mV	91.5%
★HLG-240H-24A	24V, 0~10.0A	±1.0%	150mV	92.5%
HLG-240H-30(A)	30V, 0~8.00A	±1.0%	200mV	92.5%
HLG-240H-36A	36V, 0~6.70A	±1.0%	250mV	92.5%
HLG-240H-42(A)	42V, 0~5.72A	±1.0%	250mV	92.5%
★HLG-240H-48A	48V, 0~5.00A	±1.0%	250mV	93.0%
HLG-240H-54A	54V, 0~4.45A	±1.0%	350mV	93.5%
○= A. B . C . D o	r Blank			



Features

- · Universal AC input (up to 305VAC) / Full range
- · Protections:
- Short circuit / Over current / Over voltage / Over temp.
- · Built-in active PFC function
- · High efficiency up to 96%
- IP67 / IP65 design for indoor or outdoor installations (except for HLG-320H C-Type)
- Output current adjustable through output cable or internal potentiometer
- · Cooling by free air convection

OUTPUT W 600W

- · Suitable for LED lighting and street lighting applications
- Meet 4kV surge immunity level (IEC61000-4-5)
- No load power consumption < 0.5W at remote off (HLG-600H)

- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- · LED indicator for power on (HLG-600H A-Type only)
- · Multiple models for choice:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)

C-Type: Terminal block for I/O connection (HLG-320H only)
Blank-Type: IP67 rated. Cable for I/O connection (HLG-320H only)
D-Type(option): IP67 rated. Timer dimming function, contact
MEAN WELL for details (HLG-320H only)

5 years warranty

HLG-320H





	7					
AC input voltage	ge range	ge 90~305VAC; 127~431VDC				
AC inrush curre	ent (max.)	Cold start, 70A at 230VAC				
DC adjustment	range	-15%~+13.3% rated output voltage (A-Type & C-Type)	-15%~+5% rated output voltage (A-Type only)			
Current adjustm	ent range	50%~100% rated output current adjustable by into	ernal potentiometer (for A-Type & HLG-320H C-Type)			
Over current p	rotection	95%~108% constant current limiting, auto-reco	overy			
Over voltage p	rotection	110%~140% rated output voltage				
Setup, rise, hol	d up time	500ms, 80ms, 15ms at full load and 230VAC				
Withstand volta	age	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC				
Working tempe	rature	ature -40~+70°C (refer to output dearting curve)				
Safety standard	ds	UL8750, TUV EN61347-1/2-13, PSE J61347-1/2-13 UL60950-1, UL8750, ENEC EN61347-1/2-13, (HLG-320H A/B/D/Blank-Type only) approved EN62384 approved				
EMC standards		EN55015, EN55022 class B, EN61000-3-2 class C, E	N61000-3-3, EN61000-4-2,3,4,5,6,8,11,EN61547			
	Input	A/B/D/Blank-Type: UL rated, SJTW 18AWGx3C (30cm); C-Type: Terminal block	UL rated, SJTW 18AWGx3C (30cm)			
Connection	Output	A/D/Blank-Type: SJTW 14AWGx2C (30cm) B-Type: SJTW 14AWGx2C (30cm) + SJTW 18AWGx2C (30cm) C-Type: Terminal block	A-Type: SJTW 14AWGx2C (30cm)+ SJTW 14AWGx2C (30cm) + UL2517 22AWGx3C(30cm) B-Type: SJTW 14AWGx2C (30cm)+ SJTW 14AWGx2C (30cm) + UL2517 22AWGx3C(30cm)+ UL2517 18AWGx2C (30cm)			
Dimension (Lx\	WxH)(mm)	252x 90x 43.8	280x 144x 48.5			

HLG-320H Series		71 US		CB (€
Model No.	Output	Tol.	R&N	Effi.
HLG-320H-12(A)	12V, 0~22.0A	±3.0%	150mV	91.0%
HLG-320H-15A	15V, 0~19.0A	±2.0%	150mV	92.5%
HLG-320H-20A	20V, 0~15.0A	±1.5%	150mV	93.5%
HLG-320H-24A	24V, 0~13.34A	±1.0%	150mV	94.0%
HLG-320H-30(A)	30V, 0~10.7A	±1.0%	200mV	94.0%
HLG-320H-36(A)	36V, 0~8.90A	±1.0%	250mV	94.5%
HLG-320H-42(A)	42V, 0~7.65A	±1.0%	250mV	95.0%
HLG-320H-48A	48V, 0~6.70A	±1.0%	250mV	95.0%

HLG-320H-54(A) 54V, 0~5.95A ±1.0% 350mV

HLG-600H Series	5	P .7	1 ∪s ₹ 77	CBC€
Model No.	Output	Tol.	R&N	Effi.
HLG-600H-12(A)	12V, 0~40A	±3%	150mV	92.0%
HLG-600H-15A	15V, 0~36A	±2%	150mV	93.5%
HLG-600H-20A	20V, 0~28A	±1.5%	150mV	94.5%
HLG-600H-24A	24V, 0~25A	±1.0%	150mV	95.0%
HLG-600H-30(A)	30V, 0~20A	±1.0%	200mV	95.0%
HLG-600H-36A	36V, 0~16.7A	±1.0%	250mV	95.5%
HLG-600H-42A	42V, 0~14.3A	±1.0%	250mV	96.0%
HLG-600H-48A	48V, 0~12.5A	±1.0%	250mV	96.0%
HLG-600H-54A	54V, 0~11.2A	±1.0%	350mV	96.0%



▶ Features

- · Constant current output with high output voltage>60VDC
- Universal AC input (up to 305VAC)/ Full range
- · Built-in active PFC function
- · High efficiency up to 94%
- Protections: Short circuit / Over voltage / Over temperature
- · Cooling by free air convection
- Output current adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- · Suitable for dry, damp, and wet location

- · Suitable for LED lighting and street lighting applications
- · Multiple models for choice:

A-Type: IP65 rated. Constant current level can be adjusted

through internal potentiometer

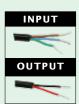
B-Type: IP67 rated and built-in 3 in 1 dimming function

(1~10VDC, PWM signal, or resistance)

D-Type (option): IP67 rated. Timer dimming function, contact MEAN WELL for details

· 5 years warranty

HLG-60H-C HLG-80H-C HLG-120H-C HLG-185H-C







_							
AC input voltag	ge range	90~305VAC; 127VD	C~431VDC				
AC inrush current (max.)		Cold start, 60A at 23	30VAC	Cold start, 50A at 230VAC Cold start, 55A at 230VAC			
Current adjusti	nent range	60%~100%		50%~100%			
Short circuit pr	otection	Hiccup mode, auto-r	recovery	Constant current limiting, au	uto-recovery		
Over temp. pro	tection	Shut down o/p voltage,		Shut down o/p voltage, auto-recov	/ery		
Setup, rise, hol	d up time	500ms, 80ms, 16ms a					
Withstand volta	age	I/P-O/P:3.75kVAC, I/	/P-FG:2kVAC, O/P-FC				
Working temperature		-40~+70°C (refer to	output derating cu	curve)			
Safety standard	ls			51347-1, EN61347-2-13 approved EN61347-1, EN61347-2-13, EN62384 approved			
EMC standards		EN55015, EN61000-	3-2 class C, EN6100	0-3-3, EN61000-4-2,3,4,5,6,8	3,11, EN61547		
	Input	UL rated, SJTW 16AV	VGx3C(30cm)				
Connection	Output	A&D-Type: SJTW 16A\B-Type: SJTW 16AWG:	x2C(30cm)+	A&D-Type: STW 16AWGx2C(30cm) for HLG-120H-C350 and HLG-185H-C500; SJTW 16AWGx2C(30cm) for othe B-Type: STW 16AWGx2C(30cm) + SJTW 16AWGx2C(30cm) for HLG-120H-C350 and HLG-185H-C500; SJTW 16AWGx2C(30cm) + SJTW 16AWGx2C(30cm) for others			
Dimension (Lx)	VxH)(mm)	171x 61.5x 36.8	195.6x 61.5x 38.8	220x 68x 38.8	228x 68x 38.8		

HLG-60H-C Series (70W)

HLG-120H-C Series (150W)



Model No.	Output	Io Tol.	R&N	Effi.
HLG-60H-C350(A)	100~200V, 350mA	±5%	1V	91%
HLG-60H-C700(A)	50~100V, 700mA	±5%	0.5V	90.5%

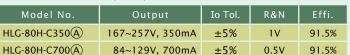
 \bigcirc = A, B or D

P.M...CBCE

TIEG TEOTI C SCITCS (TSOM)			,,
Output	Io Tol.	R&N	Effi.
215~430V, 350mA	±5%	2V	94%
150~300V, 500mA	±5%	1.5V	94%
107~215V, 700mA	±5%	1V	94%
74~148V, 1050mA	±5%	1V	94%
54~108V, 1400mA	±5%	1V	93.5%
	Output 215~430V, 350mA 150~300V, 500mA 107~215V, 700mA 74~148V, 1050mA	Output Io Tol. 215~430V, 350mA ±5% 150~300V, 500mA ±5% 107~215V, 700mA ±5% 74~148V, 1050mA ±5%	Output Io Tol. R&N 215~430V, 350mA ±5% 2V 150~300V, 500mA ±5% 1.5V 107~215V, 700mA ±5% 1V 74~148V, 1050mA ±5% 1V

 \bigcirc = A, B or D

HLG-80H-C Series (90W)



P. 71_{us}

CBCE

(R) ALIST CB(F

 \bigcirc = A, B or D

HLG-185H-C Series (200W)

ild 10311 C Series (200W)			200 (777)	J
Model No.	Output	Io Tol.	R&N	Effi.
HLG-185H-C500(A)	200~400V, 500mA	±5%	2V	94%
HLG-185H-C700(A)	143~286V, 700mA	±5%	1.5V	94%
HLG-185H-C1050(A)	95~190V, 1050mA	±5%	1V	94%
HLG-185H-C1400(A)	71~143V, 1400mA	±5%	1V	94%

 \bigcirc = A, B or D



Features

- 180~528VAC wide input range
- · Protections: Short circuit / Over current / Over voltage / Over temperature
- · Built-in active PFC function
- · High efficiency up to 91.5%
- IP67 / IP65 design for indoor or outdoor installations
- · Cooling by free air convection
- · Output current adjustable through output cable or internal potentiometer
- ·Class 2 power unit / Pass LPS for HVG-65/100

- · Suitable for dry, damp, and wet location
- · Suitable for LED lighting and street lighting applications
- Multiple models for choice:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated and built-in 3 in 1 dimming function (0~10VDC, PWM signal, or resistance)

D-Type (option): IP67 rated. Timer dimming function, contact MEAN WELL for details

5 years warranty

HVG-150 HVG-65 HVG-100





		T		-		
AC input voltage	e range	180~528VAC (single phase); 25	180~528VAC (single phase); 254~747VDC			
AC inrush curre	nt (max.)	Cold start, 25A at 480VAC Cold start, 25A at 480VAC Cold start, 35A at 480VAC				
DC adjustment r	range	±10% rated output voltage				
Current adjustm	ent rang	60%~100%	55%~100%			
Over current prote	ection	95%~108% constant current limi	ting, auto-recovery			
Over voltage pro	otection	110%~140% rated output voltage				
Cotum rico hold	l +i.m.a	400ms, 80ms, 16ms at full load	00ms, 80ms, 16ms at full load 500ms, 80ms, 30ms at full load 400ms, 8			
Setup, rise, hold	i up time	and 347VAC/480VAC	nd 347VAC/480VAC and 347VAC/480VAC			
Withstand voltag	Vithstand voltage I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC					
Working temper	ature	-40~+70°C (refer to output derating curve)				
Safety standards	S	UL8750 approved				
EMC standards		EN55015, EN61000-3-2 class C,	EN61000-3-3, EN61000-4-2,3,4,5	,6,8,11, EN61547,		
EMC Standards		FCC part 15 class B				
Inp	out	UL rated, STW 18AWGx3C (30cm	n)			
	A&D	- SVT 18AWCv2C (20cm)		SITW 14AWGy2C (20cm)		
Connection	Тур	SVT 18AWGx2C (30cm)		SJTW 14AWGx2C (30cm)		
Out	B-	SVT 19AWG: 2C (20am) : III 2F17	1.9.4)WC+2.C (2.0.5m)	SJTW 14AWGx2C (30cm)+		
	Тур	SVT 18AWGx2C (30cm)+UL2517	TOAWGX2C (SUCM)	UL2517 18AWGx2C (30cm)		
Dimension (LxW	xH)(mm)	189x 61.5x 36.8	236x 68x 38.8	245x 68x 38.8		

HVG-65 Series

P. 71. FC

Output	Tol.	R&N	Effi.
12V, 0~5A	±2.0%	120mV	86.5%
15V, 0~4.3A	±2.0%	150mV	87.5%
20V, 0~3.25A	±1.0%	150mV	88.5%
24V, 0~2.71A	±1.0%	150mV	89.0%
30V, 0~2.17A	±1.0%	200mV	89.0%
36V, 0~1.81A	±1.0%	200mV	89.5%
42V, 0~1.55A	±1.0%	300mV	89.5%
48V, 0~1.36A	±1.0%	300mV	90.0%
54V, 0~1.21A	±1.0%	300mV	90.0%
	12V, 0~5A 15V, 0~4.3A 20V, 0~3.25A 24V, 0~2.71A 30V, 0~2.17A 36V, 0~1.81A 42V, 0~1.55A 48V, 0~1.36A	12V, 0~5A ±2.0% 15V, 0~4.3A ±2.0% 20V, 0~3.25A ±1.0% 24V, 0~2.71A ±1.0% 30V, 0~2.17A ±1.0% 36V, 0~1.81A ±1.0% 42V, 0~1.55A ±1.0% 48V, 0~1.36A ±1.0%	12V, 0~5A ±2.0% 120mV 15V, 0~4.3A ±2.0% 150mV 20V, 0~3.25A ±1.0% 150mV 24V, 0~2.71A ±1.0% 150mV 30V, 0~2.17A ±1.0% 200mV 36V, 0~1.81A ±1.0% 200mV 42V, 0~1.55A ±1.0% 300mV 48V, 0~1.36A ±1.0% 300mV

 \bigcirc = A, B or D

HVG-100 Series

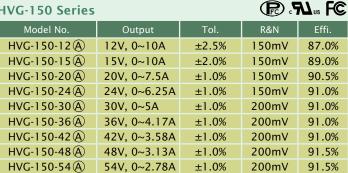
P	51 (for 42~54V)	c Al us	F©
	(TOT 42~54V)	(TOT 15~30V)	

Model No.	Output	Tol.	R&N	Effi.
HVG-100-15A	15V, 0~5A	±2.0%	150mV	89.0%
HVG-100-20 (A)	20V, 0~4.8A	±1.0%	150mV	90.0%
HVG-100-24A	24V, 0~4A	±1.0%	150mV	91.0%
HVG-100-30 (A)	30V, 0~3.2A	±1.0%	200mV	91.0%

Model No.	Output	Tol.	R&N	Effi.
HVG-100-36(A)	36V, 0~2.65A	±1.0%	200mV	90.5%
HVG-100-42 (A)	42V, 0~2.28A	±1.0%	200mV	90.5%
HVG-100-48A	48V, 0~2A	±1.0%	200mV	91.0%
HVG-100-54A	54V, 0~1.77A	±1.0%	200mV	91.0%

 \bigcirc = A , B or D

HVG-150 Series



 \bigcirc = A, B or D

HVGC series 65~150W Wide Input Range with C.C. Output

Features

- · 180~528VAC wide input range
- Protections: Short circuit / Over voltage / Over temperature
- · Built-in active PFC function
- · High efficiency up to 91%
- IP67 / IP65 design for indoor or outdoor installations
- · Cooling by free air convection
- · Constant current mode
- Output current adjustable through output cable or internal potentiometer
- · Suitable for dry, damp, and wet location

- · Suitable for LED lighting and street lighting applications
- · Multiple models for choice:

A-Type: IP65 rated. Constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated and built-in 3 in 1 dimming function (0~10VDC, PWM signal, or resistance)

D-Type (option): IP67 rated. Timer dimming function, contact MEAN WELL for details

5 years warranty

HVGC-65 HVGC-100 **HVGC-150** AC input voltage range 180~528VAC (single phase); 254~747VDC AC inrush current (max.) Cold start, 25A at 480VAC Cold start, 35A at 480VAC 60%~100% Current adjustment range Over voltage protection 105%~115% rated output voltage 400ms, 150ms, 18ms at full load 400ms, 80ms, 16ms at full load 500ms, 80ms, 30ms at full load Setup, rise, hold up time and 347VAC/480VAC and 347VAC/480VAC and 347VAC/480VAC I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC Withstand voltage

Working tem	peratui	·e	-40~+70°C (refer to output derating curve)		
Safety standards HVGC-65: UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved HVGC-100/150: UL8750, TUV EN61347-1, EN61347-2-13 approved			•		
EMC standar	ds		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, FCC part 15 class B		
	Input		UL rated, STW 18AWGx3C (30cm)		
Connection		A&D- Type	SJTW 18AWGx2C (30cm)		STW 18AWGx2C (30cm)
	Output	B- Type	SJTW 18AWGx2C (30cm)+UL251	7 18AWGx2C (30cm)	STW 18AWGx2C (30cm)+ UL2517 18AWGx2C (30cm)
Dimension (I	xWxH)	(mm)	189x 61.5x 36.8	89x 61.5x 36.8 236x 68x 38.8	

® Mus ≪ CBF©(€ **HVGC-65 Series** Model No. Io Tol. HVGC-65-350 (A) 18~186V, 350mA 1.0V 90.0% ±5% HVGC-65-500(A) 13~130V, 500mA 0.7V 90.5% ±5% HVGC-65-700 (A) 9~93V, 700mA 90.5% ±5% 0.5V HVGC-65-1050(A) 6~62V, 1050mA 0.3V 90.0% ±5%

 \bigcirc = A , B or D

HVGC-100 Series	P .5	Us 🔼	СВ	F©C
Madal Na	Output	To Tol	DON	Ltt:

Model No.	Output	Io Tol.	R&N	Effi.
HVGC-100-350(A)	29~285V, 350mA	±5%	1V	91%
HVGC-100-700(A)	15~142V, 700mA	±5%	0.5V	91%

LIV	ICC	150	C	

HVGC-150 Series		us 🖴	CRE	© (E
Model No.	Output	Io Tol.	R&N	Effi.
HVGC-150-350 (A)	42~428V, 350mA	±5%	2.0V	91%
HVGC-150-500 (A)	30~300V, 500mA	±5%	1.5V	91%
HVGC-150-700 (A)	21~215V, 700mA	±5%	1.0V	91%
HVGC-150-1050(A)	15~143V, 1050mA	±5%	0.7V	90%
HVGC-150-1400(A)	12~107V, 1400mA	±5%	0.5V	90%

 \bigcirc = A , B or D

60~240W Circular Shape for Bay Lighting

Description

HBG series are high performance LED power supplies specially designed for the high/low bay lighting and spot lighting applications. Featuring with circular shape, these series are easy to be assembled with the mechanical structure of high/low bay lighting fixtures. The enclosures can be perfectly configured with the heat sink of lighting fixtures and provide excellent heat dissipation ability, which solve the mechanism limits of old style bay lighting systems using slim shape LED power supplies. (HBG-60 also offers models in PCB type, allowing a better variety for lighting module design consideration.) As long as the temperature on the top of the enclosure can be controlled under 70°C, the power supply service life could be guaranteed up to 40,000 hours.

For more detail information, please visit our website: www.meanwell.com/product/HBG/HBG.html

HBG-60 DxH: ϕ 100x 25mm DxH: ϕ 110x 40mm



HBG-100



HBG-160



P. SL. BECBCE

PAN ATTORCE

HBG-240

▶ Features

HBG-60 Series

- •HBG-60: 90~295VAC input; HBG-100~240: 90~305VAC input
- ·Built-in active PFC function
- ·High efficiency up to 93.5%
- Protections: Short circuit / Over current / Over voltage / Over temp. (Short circuit / Over temp. for HBG-60)
- ·Output current adjustable through internal potentiometer
- ·Suitable for dry, damp, and wet location
- •Two configurations for HBG-60(constant current mode):

Blank-Type: Enclosed type(plastic enclosure); P-Type: PCB type

•Multiple models for HBG-100/160/240 (aluminum case)

A-Type: IP65 rated. Constant current level can be adjusted

through internal potentiometer

B-Type: IP67 rated and built-in 3 in 1 dimming function

(1~10VDC, PWM signal, or resistance)

Blank-Type: IP67 rated. Cable for I/O connection

E-Type(option): IP67 rated. Can be fixed by steel support, contact MEAN WELL for details (HBG-100/160 only)

•5 years warranty

UL/CUL/ENEC/CE pending

taran da antara da a				
Model No.	Output	Io Tol.	Effi.	
HBG-60-1050	37~55V, 1050mA	±5%	91%	
HBG-60-1400 🔾	28~43V, 1400mA	±5%	90%	
HBG-60-2100 🔾	19~29V, 2100mA	±5%	89%	

= Blank, P; Blank: Enclosed type, P: PCB type

HBG-1	60	Series

Model No.	Output	Tol.	Effi.
HBG-160-24 (A)	24V, 0~6.5A	±2%	92.0%
HBG-160-36 (A)	36V, 0~4.4A	±2%	92.0%
HBG-160-48 (A)	48V, 0~3.3A	±2%	93.0%
HBG-160-60 (A)	60V. 0~2.6A	±2%	93.5%

 \bigcirc = A, B, E or Blank

HBG-100 Series	FC c SU us (for 24V/36V)	1 (for 48V/60V)	ℤ"CB(€
Model No.	Output	Tol.	Effi.
HBG-100-24A	24V, 0~4A	±2%	90.5%
HBG-100-36A	36V, 0~2.7A	±2%	91.0%
HBG-100-48A	48V, 0~2A	±2%	91.0%
HBG-100-60(A)	60V, 0~1.6A	±2%	91.5%

 \bigcirc = A, B, E or Blank

HRG-240 Series

IBG-240 Series	`	c Naus 🤇	Z ODCC
Model No.	Output	Tol.	Effi.
HBG-240-24(A)	24V, 0~10A	±2%	92.5%
HBG-240-36A	36V, 0~6.7A	±2%	92.5%
HBG-240-48A	48V, 0~5A	±2%	93.0%
HBG-240-60A	60V, 0~4A	±2%	93.5%
	- ,		

 \bigcirc = A, B or Blank

Construction of High Bay Light with HBG-100/160/240







Installations with HBG-100/160/240



HSG/ULP series -& Surge Protection Device

HSG-70 series

70W Rectangular Metal Case

P(E



- Universal AC input (up to 305VAC)
- · Protections:

Short circuit / Over current / Over voltage / Over temperature

- · Built-in active PFC function
- · Output current adjustable through internal potentiometer
- · IP65 design
- · Cooling by free air convection
- · Suitable for LED lighting and moving sign applications
- · 3 years warranty

AC input voltage range		90~305VAC; 127~431VDC
Current adjustment range		60%~100%
Over current pr	otection	95%~108% constant current limiting
Over voltage pr	otection	112%~140% rated output voltage
Withstand volta	ge	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature		-40~+70°C (refer to output derating curve)
Safety standards		Design refer to UL 8750, EN61347-1, EN61347-2-13
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61547, EN61000-4-2,3,4,5,6,8,11
Connection	Input	CCC 1.5mm ² x2C (30cm)
Connection	Output	H05RN-F 1.0mm ² x3C (30cm)

Model No.	Output	Tol.	R&N	Effi.
HSG-70-12	12V, 0~5A	±2.5%	150mV	88%
HSG-70-18	18V, 0~4A	±2.0%	200mV	89%
HSG-70-24	24V, 0~3A	±1.0%	200mV	89%
HSG-70-36	36V, 0~2A	±1.0%	200mV	90%
HSG-70-48	48V, 0~1.5A	±1.0%	200mV	90%

ULP-150 series 150W U-Bracket Single Output with PFC





215x 67.4x 33 mm

- ·Universal AC input (up to 295VAC)
- ·Built-in active PFC function
- ·High efficiency up to 93%
- Protections:

Short circuit / Overload / Over voltage / Over temperature

- ·Constant voltage mode
- ·Cooling by free air convection
- ·U-bracket low profile: 33mm
- · 3 years warranty

90~295VAC; 127~417VDC
Cold start, 65A at 230VAC
130%~185% hiccup mode, auto-recovery
110%~135% rated output voltage
500ms, 100ms, 16ms at full load and 230VAC
I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
-30~+70°C (refer to output derating curve)
Design refer to UL8750, EN61347-1, EN61347-2-13
EN55015, EN61000-3-2 class C, EN61000-3-3, EN61547, EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
ULP-150-12	12V, 0~12.5A	±2%	100mV	91.5%
ULP-150-15	15V, 0~10A	±2%	150mV	91.5%
ULP-150-24	24V, 0~6.3A	±2%	150mV	93.0%
ULP-150-36	36V, 0~4.2A	±2%	250mV	93.0%
ULP-150-48	48V, 0~3.2A	±2%	250mV	93.0%

SPD-20

20kA Surge Protection Device



- ·UL1449 3rd Edition, Type 2 component assemblies
- ·Line to Ground & Line to Line protected
- ·Parallel (3 wires) connection style
- ·LED status indicators
- ·IP67 design
 - ·Suitable for surge protection of LED drivers



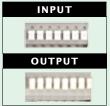
			(3FD-20-240F)	
Model No.		SPD-20-240P	SPD-20-277P	
Operating voltage		240VAC, 50/60Hz	277VAC, 50/60Hz	
MCOV (Max. Continuous Ope	rating Voltage)	300VAC	320VAC	
VPR (Voltage Protection Ratin	g)	≤1500V (L-FG, N-FG, L-N)		
IN (Nominal Discharge Currer	nt)	5kA		
Max. Surge Current (8/20µs)		20kA		
SCCR (Short Circuit Current Rating)		5kA		
Response time		<25ns		
Operating temperature		-40~+70°C		
Safety standard		UL1449 3 rd Edition, TUV EN61643-11 approved	UL1449 3 rd Edition approved	
L (Black)				
Connection	N (White)	FEP 10AWG (15cm)		
	FG (Green)			

DALI to PWM Converter & DC/DC Driver

DAP-04





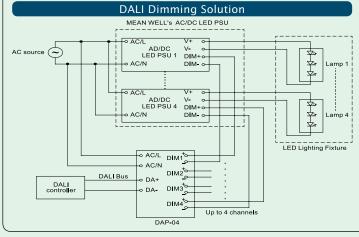


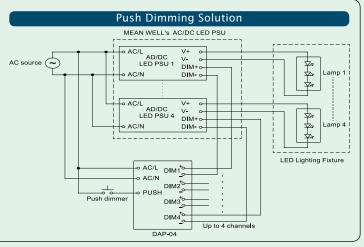
4 Channel DALI to PWM Converter

- ·Universal AC input (up to 305VAC)
- ·Convert DALI signal to PWM signal
- · 4 DALI addressable output channels
- ·Built-in push dim function
- Dimming range: 1~100%
- ·Comply with DALI standards (IEC62386-101,102,207)
- ·PWM active high or active low selectable
- ·Linear or logarithm dimming curve selectable (comply with IEC62386-207)
- Built-in relay for ON/OFF control of LED PSU
- ·Fully isolated plastic case
- ·Class II power unit, no FG
- •Power consumption < 0.5W
- •Suitable to use along with MEAN WELL's AC/DC LED PSU with 3-in-1 dimming function
- ·3 years warranty

AC input voltage range	90~305VAC; 127~431VDC
Power consumption(typ.)	0.5W
Input signal	DALI or push dim
Output signal	PWM, 1KHz
Output channel	4 channels
Output PWM logic	Active high or active low selectable by jumper (Factory setting is active high)
Working temperature	-30~+60°C (refer to output derating curve)
Safety standards	EN61347-1, EN61347-2-11, EN61058-1 clause 8/17/20/25 approved
DALI standards	Comply with IEC62386-101, 102, 207
EMC standards	EN55015, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61547

> Connection of Dimming Operation





LDH-45 Series

DC-DC Constant Current LED Driver





- ·Constant current step-up LED driver
- ·Wide input and output voltage range
- ·High efficiency up to 95%
- •PWM + analog dimming and remote ON/OFF control
- Protections: Short circuit / Over voltage / Under voltage
- ·Cooling by free air convection
- •Operating temperature range: -40~+70°C
- •Fully enclosed plastic case (UL 94V-0)
- ·3 years warranty

(€

Output current accuracy		±5%
D)A/A A -1:	Remote ON/OFF	Leave open if not used
PWM dimming & ON/OFF control	Kelliote ON/OFF	■ Power ON with dimming: DIM ~ DIM- > 2~8VDC or open circuit ■ Power OFF: DIM ~ DIM- < 0.5VDC or short
ON/OFF CONTROL	PWM frequency	1K~10KHz
Analog dimming &	Remote ON/OFF	Leave open if not used
ON/OFF control	Remote ON/OFF	■ Power ON with dimming: Analog DIM ~ DIM-> 0.25~8VDC or open circuit ■ Power OFF: Analog DIM ~ DIM-< 0.2VDC or short
Short circuit protection		Power OFF and fuse open
Over voltage protection		>116% rated output voltage
Working temperature		-40~+70°C (refer to output derating curve)
EMC standards		EN55015, EN61547, EN61000-4-2,3,4,6,8

LDH-45A Series

Inc		Out	put		
Model No.	Input (VDC)	Voltage	Current	Io Tol.	Effi.
	(VDC)	(VDC)	(mA)		
LDH-45A-350	9~18	12~86	350mA	±5%	91%
LDH-45A-500	9~18	12~86	500mA	±5%	90%
LDH-45A-700	9~18	12~64	700mA	±5%	90%
IDH-45A-1050	9~18	12~43	1050mA	+5%	91%

= Blank, W; Blank: pin style, W: wire style

LDH-45B Series

	2511 135 561165					
lo		Input	Out	put		
	Model No.	(VDC)	Voltage	Current	Io Tol.	Effi.
		(VDC)	(VDC)	(mA)		
	LDH-45B-350	18~32	21~126	350mA	±5%	93%
	LDH-45B-500	18~32	21~86	500mA	±5%	94%
	LDH-45B-700	18~32	21~64	700mA	±5%	95%
	LDH-45B-1050	18~32	21~43	1050mA	±5%	95%

LDD-L series DC-DC Constant Current LED Driver

▶ Features

- ·Constant current step-down LED driver
- ·Wide input and output voltage range
- $\cdot \text{High efficiency up to } 95\%$
- •Comply with EN55015 and FCC part 15 without additional input filter and capacitors
- •300~700mA: PWM dimming and remote ON/OFF control 1000~1500mA: PWM + analog dimming and remote ON/OFF control
- •Protections: Short circuit / Over temperature (300~700mA only)

- ·Compact size
- •Operating temperature range: 300 ~ 700mA: -40~+85°C 1000~1500mA: -40~+71°C
- ·Cooling by free air convection
- •Fully enclosed plastic case (UL 94V-0)
- ·Low cost, high reliability
- ·3 years warranty

LDD-300~700L/LW/LS	LDD-1000~1500L/LW/LS

Output currer	nt accuracy	±5% at 24VDC input			
		Leave open if not used			
PWM	Remote	Power ON with dimming:	Power ON with dimming:		
dimming &	ON/OFF	DIM ~ -Vin >3.5~8VDC or open circuit	DIM \sim -Vin >2.6 \sim 5.5VDC or open circuit		
ON/OFF		■ Power OFF:	■ Power OFF:		
control		DIM ~ -Vin <0.5VDC or short	DIM ~ -Vin <0.4VDC or short		
	PWM frequency	100~1KHz	100~500Hz		
			Leave open if not use		
Analog			■ Power ON with dimming:		
dimming & ON/OFF	Remote ON/OFF	Non	DIM ~ -Vin >0.5~2.5VDC or open circuit		
control			■ Power OFF:		
			DIM ~ -Vin <0.4VDC or short		
Short circuit p	orotection	Regulated at rated output current, can be continued, auto-recovery			
Over temp.protection		Shut down, recovers automatically after temperature goes down	Non		
Working temperature		-40~+85°C (refer to output derating curve)	-40~+71°C (refer to output derating curve)		
		(refer to output defatting early)	(refer to output defating early)		
EMC standards		EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B			
Operating case temp. (max.)		100°C			
Dimension (I	·///·/// /// //// //// //// //// ////	LDD-300~700L/LW: 22.6x 9.9x 8.9	LDD-1000~1500L/LW: 31.8x 20.3x 12.2		
Dimension (L	xwxH) (mm)	LDD-300~700LS: 25.4x 10.5x 9.3	LDD-1000~1500LS: 31.8x 20.3x 10.9		

LDD-L Series

F© (E

	Input	Out	put			Dimming	
Model No.	(VDC)	Voltage (VDC)	Current (mA)	Io Tol.	Effi.		
LDD-300L	9~36 (LDD-300~700LS: 9~32)	2~32 (LDD-300~700LS: 2~28)	300			PWM	
LDD-350L □			350	±5%	95%		
LDD-500L □			500				
LDD-600L □			600				
LDD-700L □			700				
LDD-1000L □			1000				
LDD-1200L □	6~36	2~30	1200			PWM + Analog	
LDD-1500L □			1500				

 $[\]square$ = Blank, W, S; Blank: pin style, W: wire style, S: SMD style

LDD-H&LDB-L series

DC-DC Constant Current LED Driver

LDD-H/HW/HS

- ·Constant current step-down LED driver
- ·Wide input and output voltage range
- ·High efficiency up to 97%
- ·Comply with EN55015 and FCC part 15 without additional input filter and capacitors
- •PWM dimming and remote ON/OFF control

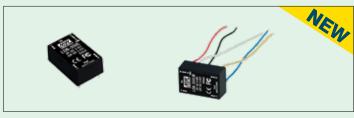
- •Protections:
- Short circuit / Over temp.
- ·Compact size
- Operating temperature range:
- -40~+85°C
- ·Cooling by free air convection
- ·Fully enclosed plastic case (UL 94V-0)
- ·3 years warranty

LDB-L/LW

- Constant current buck-boost LED driver
- ·Wide input and output voltage range
- ·High efficiency up to 90%
- ·Comply with EN55015 and FCC part 15 without additional input filter and capacitors
- •PWM dimming and remote ON/OFF control

- ·Protections:
- Short circuit / Over temp.
- ·Operating temperature range:
- -40~+71°C
- ·Cooling by free air convection
- ·Fully enclosed plastic case (UL 94V-0)
- ·3 years warranty





Output current accuracy		±3% at 24VDC input; ±4% at 48VDC input for LDD-H/HW; ±5% at 48VDC input for LDD-HS				
		Leave open if not used				
PWM dimming & ON/OFF control	Remote ON/OFF	 Power ON with dimming: DIM ~ -Vin >2.5~6VDC or open circuit Power OFF: DIM ~ -Vin <0.8VDC or short 				
	PWM frequency	100~1KHz				
Short circui	t	Regulated at rated output current, can be continued, auto-recovery				
Over tempe	rature	Shut down, recovers automatically after temperature goes down				
Working ter	mperature	-40~+85°C				
EMC standa	rds	EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class				
Operating of (max.)	ase temp.	100°C				
Dimension (LxWxH)(mr	n)	LDD-H/HW: 31.8x 20.3x 12.2 LDD-HS: 31.8x 20.3x 10.9				

Output current accuracy		±5%					
		Leave open if not used					
PWM dimming & ON/OFF control	Remote ON/OFF	 Power ON with dimming: DIM ~ -Vin >2~5VDC or open circuit Power OFF: DIM ~ -Vin <0.1VDC or short 					
	PWM frequency	1KHz					
Short circui	t	Regulated at rated output current, can be continued, auto-recovery					
Over tempe protection	rature	Shut down, recovers automatically after temperature goes down					
Working ter	nperature	-40~+71°C					
EMC standa	rds	EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B					
Operating of (max.)	ase temp.	110°C					
Dimension (LxWxH)(mr	n)	31.8x 20.3x 12.2					

LDD-H Series

FC (f

LDD II Delles						
	Input	Out	put			
Model No.	(VDC)	Voltage (VDC)	Current (mA)	Io Tol.	Effi.	
LDD-300H	9~56	2~52	300	±4%	97%	
LDD-350H	9~56	2~52	350	±4%	97%	
LDD-500H 🗌	9~56	2~52	500	±4%	97%	
LDD-600H	9~56	2~52	600	±4%	97%	
LDD-700H	9~56	2~52	700	±4%	97%	
LDD-1000H	9~56	2~52	1000	±4%	97%	

= Blank, W, S; Blank: pin style, W: wire style, S: SMD style

LDB-	HELLE					
Model No.	Input	Out	out			
	(VDC)	Voltage (VDC)	Current (mA)	Io Tol.	Effi.	
LDB	3-300L□	9~36	2~40	300	±5%	90%
LDB	-350L□	9~36	2~40	350	±5%	90%
LDB	3-500L□	9~30	2~32	500	±5%	90%
LDB	3-600L□	9~28	2~30	600	±5%	90%

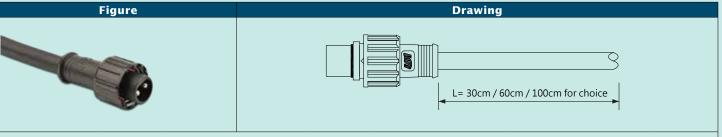
☐ = Blank, W; Blank: pin style, W: wire style

Female Waterproof Output Connector (Power supply side)

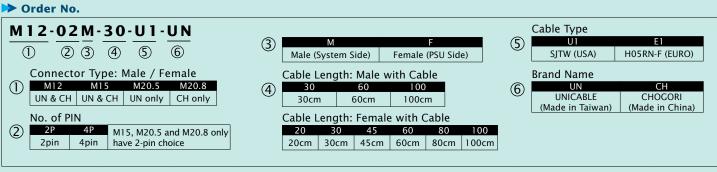
Waterproof	Pin Configuration (Female)										
Connector		M	12		M	15	M2	M20.8			
	(0 0)	Order No. : M12-02	000	Order No. : M12-04	(0 0)	Order No. : M15-02	(0 0)	Order No. : M20.5-02	Order No. : M20.8-02		
	2-pin (5A/PIN)	Suitable Current : 5A max.	4-pin (5A/PIN)	Suitable Current : 10A max.	2-pin (12A/PIN)	Suitable Current : 12A max.	2-pin (20A/PIN)	Suitable Current : 20A max.	Suitable Current : 20A max.		

- ▶ The output cable can be modified to include different waterproof connectors by MEAN WELL. Minimum order quantity may vary for different models.
- ▶ We would suggest you to order the configurations of "M15 connector with length of 20cm / 30cm / 45cm / 60cm / 80cm / 100cm cables" due to its cost effectiveness and fast delivery. Ordering other connector type or cable lengths will have higher cost and longer lead-time.
- ► Suitable for CLG / HLG / HLG-C / HVG(C) / HBG / CEN / HSG / HLN / LPF / NPF / PWM / OWA series.

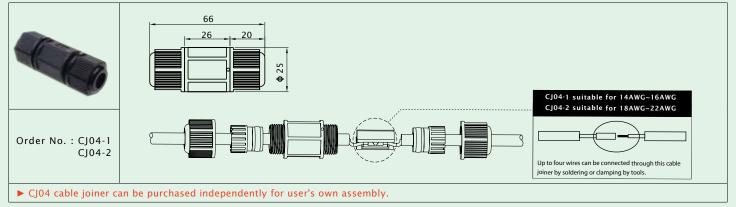
▶ Male Waterproof Output Connector with Cable (System side)



▶ MEAN WELL offers male waterproof connectors with cable length of 30cm, 60cm, and 100cm as our standard mating accessories. These mating accessories need to be ordered together with PSU. For other length or cable style, the higher MOQ requirement and long lead-time will be expected. Please consult MEAN WELL for details.



▶ Waterproof Cable Joiner



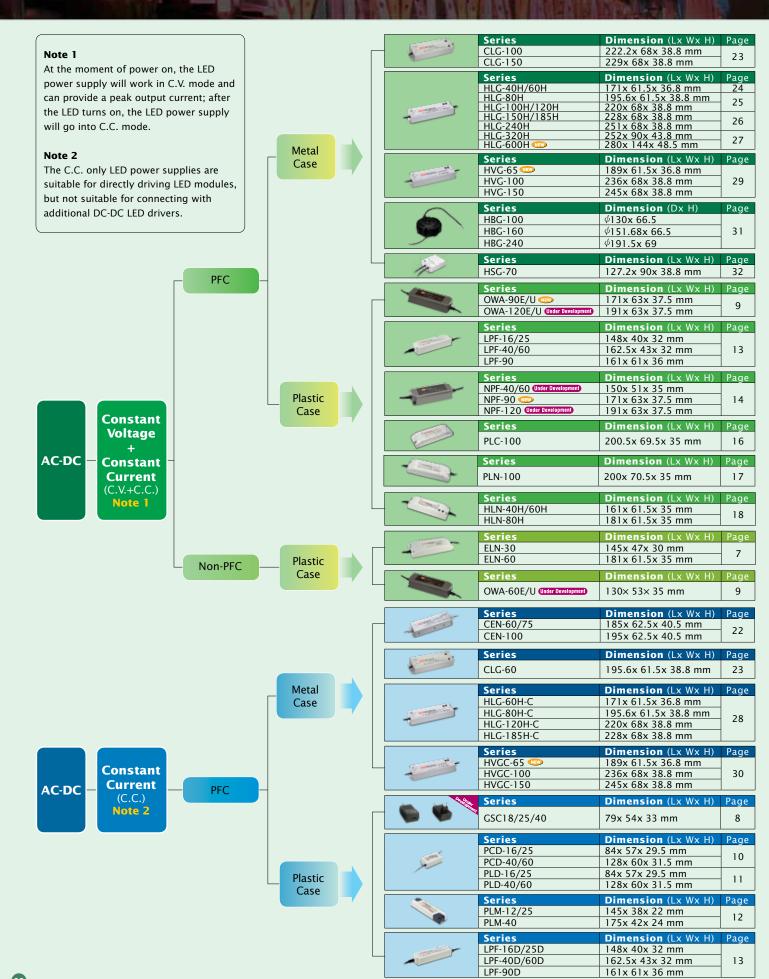
How to Choose A Suitable LED Power Supply?

- Decide a suitable wattage level, including safety margin.
- Verify your design of LED driving circuit: direct drive by PSU [choose a constant current (C.C.) mode LED power supply] or add additional driving IC to get a more precise constant current level [choose LDD, LDH or LDB].
- Verify whether the application need PFC function.
- Verify location of assembly and the required level against dust and humidity for the LED power supply (enclosure style, IP level, dry/damp/wet location).
- Verify the required safety certificates.
- Need to adjust the output voltage and/or output current or need the dimming function?

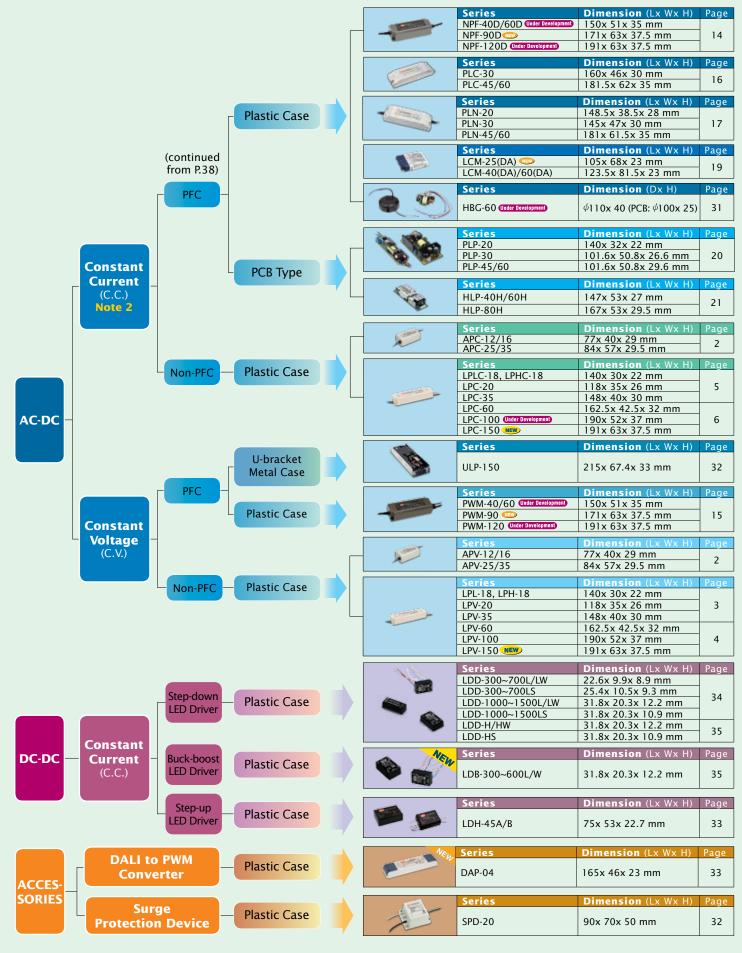
Suggested System Design

Setting	Circuit Diagram	Description	Advantage & Disadvantage
Use constant current (C.C.) mode power supply only	+V(Red) AC/DC C.C. mode PSU 0.35A 0.35A 0.35A	Using MEAN WELL's C.V. + C.C. mode or C.C. mode LED power supply as constant current source and feed the LED arrays directly. MEAN WELL product: APC / LPC / ELN / PLN / PLC / LPF / NPF / OWA / HLN / GSC / PLD / PLM / CLG / CEN / HLG / HLG-C / HSG / HVG / HVGC / HBG / PLP / HLP / LCM families	Advantage Simplest design, no need LED driver IC Lower price Higher efficiency with the best lumen per watt(Im/w) Disadvantage Unbalanced driving current and shorter LED life time LED chips should be sorted for similar VF
Use constant voltage (C.V.) mode power supply with DC-DC LED driver	AC/DC C.V. mode LED PSU 0.35A +V Driver IC -V 0.35A +V Driver IC -V Driver IC	Using AC/DC C.V. mode LED power supply and separate DC/DC LED drivers. MEAN WELL product: Any AC/DC LED power supply + LDD, LDH or LDB series (DC/DC LED driver)	Advantage Independent output channels, the most balanced current for paralleled LED strips No need to sort the VF of LED Longer LED lifetime Failures in any string do not affect the other strings Disadvantage Higher price Complicated circuit design Lower system efficiency Larger in power supply volume

Quick Selection Map



Quick Selection Map



Comparison Chart

	Far	nily	PFC (N	lote 2)	AC Input		C.C.		Dimming	Vo / Io	Max.	Warranty	
Series	Name	Type (Note 4)	Single Stage	Two Stage	Range (VAC)	Potted	or C.V. (Note 1)	IP	(Note 3)	Vo / Io Adj	Eff.	(years)	Remark
		A ★						65		~			
HLG-40H / 60H / 80H / 100H / 120H / 150H /		В						67	3 in 1				
		C (240W/320W only)		✓	90~305	✓	C.V.+C.C.			✓	96%	5	Vo<60VDC
185H / 240H / 320H / 600H	Blank (40W~320W)						67						
		D (option,						67	Timer		-		
	40~320W) A ★						65		Io				
HLG-60 80H-C /	H-C / ' 120H-C /	В		√	90~305	√	C.C.	67	3 in 1		94%	5	Vo>60VDC
185H-C		D (option)						67	Timer				
		Blank (enclosed)				✓		0.					
	60	, i	~		90~295	(half)	c.c.			Io	91%	5	
		P (PCB)											
HBG		Α			90~305	~	C.V.+C.C.	65		Io			Circular shape
	100 / 160 /	В		✓				67	3 in 1		93.5%		
	240	Blank						67					
		E (option, 100W/160W only)						67		111/6: 4			
		A ★		✓	180~528	*	HVG : C.V.+C.C.	65		HVG: ✓ HVGC:I₀			
HVG(C) 65 / 10		В					HVGC : C.C.	67	3 in 1		91.5%	5	
		D (option)						67	Timer				
HSG-70				✓	90~305	✓	C.V.+C.C.	65		Io	90%	3	
		A ★		*	90~295	*		65		✓		3	
CI C 15	_	В					677.66	67	Resistance		010/		
CLG-150	•	С					C.V.+C.C.			✓	91%		
		Blank						67					
CLG-100	0			✓	90~295	✓	C.V.+C.C.	67			88.5%	3	
CLG-60		<u></u>	~		90~295	✓	C.C.	67			89%	3	
CEN-60	/ 75 / 10	00	✓		90~295		C.C.	66		✓	91%	3	
ULP-150	D			√	90~295	✓ (half)	C.V.			Vo	93%	3	U-bracket
		A								✓			
/ 80H	Н / 60Н	В		✓	90~305	(60W/80W half)	C.V.+C.C.	64	3 in 1		91%	3	
LPF-16□	/25□	D					Blank Type :	67	3 in 1				
/40□/ 90□		Blank		✓	90~305	✓	C.V.+C.C. D-Type:	67 (16W option)			90.5%	5	
		D					C.C. Blank Type :		3 in 1				
NPF-40[/ 90□ /	□ / 60□ / 120□			✓	90~305	✓	C.V.+C.C. D-Type:	67	3 111 1		91%	5	
DW/SC C	. / 60 / 6	Blank		,	00.305		C.C.	C-7	0~10Vdc		010/	F	DM/M
	0 / 60 / 9	0 / 120		√	90~305	*	C.V.	67	& PWM		91%		PWM output External
OWA- 9	U / 120			✓	90~264	✓	C.V.+C.C.	67*			91%	5	type

Companison Chart

Family		PFC (Note 2) AC Input Range		C.C.			Dimming	Vo / Io	Max.	Warranty	
Series Name Type (Note 4)	Single Stage	Two Stage	(VAC)	Potted	or C.V. (Note 1)	IP	(Note 3)	Adj	Eff.	(years)	Remark
PLN-100		✓	90~295		C.V.+C.C.	64		✓	88.5%	2	
PLN-30 / 45 / 60	✓		90~295		C.C.	64		✓	89%	2	
PLN-20	✓		90~277		C.C.	64		Io	83.5%	2	
PLC-100		~	90~264		C.V.+C.C.			✓	90%	2	Terminal block I/O
PLC-30 / 45 / 60	~		90~264		C.C.			✓	89%	2	Terminal block I/O
PCD-16 / 25 / 40 / 60	✓		A: 90~135 B: 180~295	(16W/25W/60W half)	C.C.	30	AC Phase-Cut		87%	3	
PLD-16 / 25 / 40 / 60	*		16W/40W/60W: A: 90~135 B: 180~295 25W: 90~295	(16W/25W/60W half)	C.C.	30			88%	3	
GSC18 / 25 / 40	~		90~277	(40W half)	C.C.	30			88%	3	External type
PLM-12 / 25 / 40	~		110~295		C.C.	30			88%	2	Push terminal
LCM-25 / 40 / 60		✓	25W: 180~277 40W/60W: 180~295		C.C.	20	0~10Vdc & PWM		92%	3	Io level selectable in one
LCM-25DA / 40DA / 60DA			40W/00W. 180~233				DALI & Push DIM				power unit
PLP-20 / 30 / 45 / 60	~		20W: 90~277 30~60W:90~264		C.C.			Io	89%	2	PCB type
HLP-40H / 60H / 80H		✓	90~305		C.C.		3 in 1	✓	90.5%	3	PCB type
OWA-60			90~264	✓	C.V.+C.C.	67*			91%	5	External type
ELN-30 / 60			90~264		C.V.+C.C.	64	1.1~10Vdc or PWM	✓	88%	2	
LPL-18 / LPH-18 LPV-20 / 35 / 60 / 100 / 150			LPL: 90~132 LPH: 180~264 LPV-20~100: 90~264 LPV-150: 180~305	~	C.V.	67			90%	2	
LPLC-18 / LPHC-18 LPC-20 / 35 / 60 / 100 / 150			LPLC: 90~132 LPHC: 180~264 LPC-20~60: 90~264 LPC-150: 180~305	~	C.C.	67			90%	2	
APC-12 / 16 / 25 / 35			90~264	√ (16W/35W half)	C.C.	30			84%	2	
APV-12 / 16 / 25 / 35			90~264	√ (16W/35W half)	C.V.	30			85%	2	

- Note 1 C.V. represents Constant Voltage Mode Output, whereas C.C. represents Constant Current Mode Output. For C.V.+C.C., C.C., and C.V. operations, please refer to Application Q&A section on MEAN WELL LED website. (The C.C. only LED power supplies are suitable for directly driving LED modules, but not suitable for connecting with additional DC-DC LED drivers.)
- Note 2 Single-Stage PFC: No hold-up time and higher Ripple & Noise. Not recommended to use in regions with unstable utility.
 - ■Two-Stage PFC: Longer hold-up time and lower Ripple & Noise. Suitable for LED lighting and general industrial applications.
 - Non-PFC : PF<0.6 and target at regions where PF compliance is not required.
- Note 3 3-in-1 dimming: 1~10Vdc, PWM signal, or resistance. Timmer dimming function, please contact MEAN WELL for details.
- Note 4 \star are popular models and will have sufficient stock for prompt delivery of high quantity orders.
- Note 5 * IP67 design for main body



Taiwan

明緯企業股份有限公司

MEAN WELL ENTERPRISES CO., LTD.

24891 新北市五股區五權三路28號 No.28, Wuquan 3rd Rd., Wugu Dist.,

New Taipei City 24891, Taiwan (R.O.C.)

統一編號: 34491075

Tel:+886-2-2299-6100(rep.)

Fax:+886-2-2299-6200(rep.) +886-2-2298-0818(sales)

E-mail:info@meanwell.com www.meanwell.com

China

明緯(廣州)電子有限公司

MEAN WELL (GUANGZHOU) ELECTRONICS CO., LTD.

廣州市天河區東圃鎭黃村粵安工業園A棟2樓

2F, A Building, Yuean Industry Park, Huangcun, Dongpu Town, Tianhe District, Guangzhou, China

Post Code: 510660

Tel:+86-20-2887-1200(rep.) 400-800-3608(sales)

Fax: +86-20-8201-0507

E-mail:info@meanwell.com.cn www.meanwell.com.cn

蘇州明緯科技有限公司

SUZHOU MEAN WELL TECHNOLOGY CO., LTD.

江蘇省蘇州市相城區黃埭鎭潘陽工業園東橋健民路77號 No.77, Jian-Ming Rd. Dong-Qiao, Pan-Yang Ind. Park,

Huang-Dai Town, Xiang-Cheng District,

Suzhou, Jiang-Su, China Post Code: 215152 Tel:+86-512-6508-8600

Fax: +86-512-6508-8700

E-mail:info@meanwell.cc www.meanwell.cc

Please Contact Your Local Distributor

MEAN WELL USA, INC.

44030 Fremont Blvd., Fremont, CA 94538, U.S.A.

Tel:+1-510-683-8886 Fax:+1-510-683-8899

E-mail:info@meanwellusa.com

www.meanwellusa.com

MEAN WELL EUROPE B.V.

Langs de Werf 8, 1185XT Amstelveen, The Netherlands

Tel:+31-20-758-6000 Fax:+31-20-758-6001 E-mail:info@meanwell.eu

www.meanwell.eu





